

GREEN'S FRUIT GROWER AND HOME COMPANION

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Our HEALTH DEPARTMENT

Health Hints.

A noted authority thus summarizes the uses of fruits in relieving diseased conditions of the body. It should not be understood that edible fruits exert direct medicinal effects. They simply encourage the natural processes by which the several remedial processes which they aid are brought about. "Under the category of laxatives, oranges, figs, tamarinds, prunes, mulberries, dates, nectarines and plums may be included; pomegranates, cranberries, blackberries, sumach berries, dewberries, raspberries, barberries, quinces, pears, wild cherries and medlars are astringent; grapes, peaches, strawberries, whortleberries, prickly pears, black currants and melon seeds are diuretics; gooseberries, red and white currants, pumpkins and melons are refrigerants; and lemons, limes and apples are stomachic sedatives.

"Taken in the early morning, an orange acts very decidedly as a laxative, sometimes amounting to a purgative, and may generally be relied on. . . . Pomegranates are very astringent, and relieve relaxed throat and uvula. The bark of the root, in the form of a decoction, is a good anthelmintic, especially obnoxious to tapeworm. Figs, split open, form excellent poultices for boils, and small abscesses. Strawberries and lemons, locally applied, are of some service in the removal of tartar from teeth. . . . Apples are correctives useful in nausea, and even sea-sickness and the vomiting of pregnancy. They immediately relieve the nausea due to smoking. Bitter almonds contain hydrocyanic acid, and are useful in simple cough; but they frequently produce a sort of urticaria, or nettlerash. The persimmon, or "diospyros," is palatable when ripe, but the green fruit is highly astringent, containing much tannin, and is used in diarrhea and dysentery. The oil of the coconut has been recommended as a substitute for cod-liver oil, and is much used in Germany for phthisis. Barberries are very agreeable to fever patients in the form of a drink. Dutch medlars are astringent and not very palatable. Grapes and raisins are nutritive and demulcent, and very grateful in the sick chamber. A so-called "grape cure" has been lauded for the treatment of congestions of the liver and stomach, enlarged spleen, scrofula, tuberculosis, etc. Nothing is allowed but water and bread and several pounds of grapes per diem. Quince seeds are demulcent and astringent; boiled in water they make an excellent soothing and sedative lotion in inflammatory diseases of the eyes and eyelids."

To overload the stomach with food is not less unhealthy than to deluge it with beverages; the more nutritious the food, the more hazardous are the consequences when excess is habitual. Of all the sins of nutrition, the immoderate use of meat is certainly the most grievous. It gives to the body in a form that is favorable for easy assimilation the albumen that is absolutely necessary to life, and hence the earliest effect of its excessive use must be to surcharge the body with nutrients. The chief point here is the critical examination of what is called hunger. Many persons believe that any and every sensation of hunger must be satisfied immediately, but this is a great mistake. An equally great, if not worse, mistake is the opinion that

one must eat until a sense of satiety arises. Excessive nutrition injures the mental capabilities also. Of the particular consequences of excessive nutrition, such as hypochondria (the very name of which refers the reader to the region of the abdomen,) and the gout, it is hardly necessary to speak.—German Paper.

Give the baby and each child a bed to himself. Two single beds take but little, if any more room than one large bed. Have the sleeping room furnished with only necessary furniture. See that the clothing of the little sleeper is loose at the neck, waist and arms, and keep the head uncovered. If there is anything

cases. To avoid the danger of the retained urine setting up serious cystitis (an inflammation of the bladder,) patients can learn to use a catheter at intervals. It seems wisest in such cases to consult a surgeon at once. The catarrhal condition of the bowels may be partly due to the general irritation of the nerves. The muscular action of the intestines is sympathetic to some extent with the muscular efforts to empty neighboring organs. When some abnormal condition or retained fluid is provoking nature by resisting expulsive efforts, the intestine will act irregularly at the same time. The doctor consulted may



OLD STYLE COLONIAL HOUSE.

Many of the subscribers of Green's Fruit Grower live in such places as these. Here are hints for lawn ornamentation.

young children cannot do without it is fresh air. Through the pores of the skin the body is continually throwing off poisonous vapors. If the head is covered with the bed clothing the unfortunate infant will be breathing bad air. The average child suffers from overfeeding and overdressing. Let him learn to be a trifle hungry. Do not take him for an oyster or a clam, and keep him in a stew all the time. Half the time the child cries he wants fresh air or fresh water—wiping the lips of a crying baby with cool water will often soothe and refresh him.—United States Health Report.

Please advise in my case: First, enlargement of the prostate gland; second, great difficulty in passing urine and too frequent desire—many time every half hour through the day, attended with severe stinging pain. Bowels are constipated and passages consist of hard, lumpy substance, after which a quantity of slimy matter, say a half a tea cup full at a time. I have a good appetite, and but for these troubles would be as well as ever. I am 79 years of age, and have been in active business fifty-eight years.—Subscriber.

The urinary difficulty comes from the enlargement, which interferes with complete evacuation of the bladder, replies the medical expert of New York Witness. Enlargement of the prostate is rather common in advanced years. Fairly successful operations are done in suitable

be able to give a remedy to regulate spasmodic efforts and also relieve the catarrh and constipation.

I have good health but slight appetite and weigh only 110 pounds, when I ought to weight 135 at the very least. Unfortunately I am not fond of sweets, and they do not agree with me. The experience of one young woman may serve as a hint. She was much too slender to satisfy her artistic ideals, so consulted the family physician. This is what he prescribed: Every hour from breakfast to dinner—that is, from 8 to 6 o'clock—she was to eat a banana and drink a cup of milk, says New York Tribune.

The wholesome cranberry is again with us, and should be used freely. Not only are the berries good for bilious conditions, but physicians declare that they are a preventive of grip and valuable in helping the system to ward off malarial and typhoid fevers. As a health food they should not be strained and made into a jelly, as too much of the substance is lost. Better is a sauce, where the berries will be whole and clear and the skins tender. To prepare them in this way, allow to one quart of cranberries one pint of sugar and a half-pint of water. Put all on the stove at once and cook ten minutes without stirring. Then lift the pan from the fire and let the sauce cool in the pan before pouring it in a glass dish. Let the children eat all they want of it.

Over the Snow.

Written for Green's Fruit Grower by D. A. Freeland.

Over the snow how the sleigh bells ring out,
Boys greet the sound with an answering shout.
Slow pulses quicken and faint hearts grow stout.

Over the snow.

Over the stream on an ice bridge we go,
Hark! how the brooklet is gurgling below;
Runners make music as creaking they go,
Over the snow.

Over the snow on a clear winter night,
Under the many stars twinkling so bright,
Under aurora's most glorious light,
Over the snow.

Over the snow with a sweetheart, such bliss!
Rollicking song, and a laugh and a kiss,
What can the tropics give equal to this?
Over the snow.

For nervous headache bathe the back of the neck with hot water.

Tincture of arnica is the best application for sprains or bruises.

For a cold in the head try snuffing powdered borax up the nostrils.

Lime water and sweet oil applied immediately will take the pain from a burn.

Snuffing tannin is one of the best remedies for a serious case of bleeding at the nose.

For neuralgia try wet cloths of alcohol or water, or paregoric, or laudanum and water, laid on a hot water bottle and the part steamed over it.

One of the best remedies for a disturbed digestion is hot water, to which has been added salt and paprika. Certainly there is no question that salt is a very valuable constituent of food.

Condiments generally, and especially salt and pepper, have a real and distinct value, outside their use in bringing out the flavor of the food to which they have been added.

The Chicago "Tribune" points out that in eastern countries the condiments such as pepper are used to profusion in all foods. Gastric troubles common enough in other countries are conspicuously absent, and the free use of pepper has much to do with the fact. Salt and pepper work against fermentation.

A celebrated physician has claimed in one of his lectures that the best remedy for nose bleed is a vigorous motion of the jaws, as in the act of chewing. In the case of a child, he recommends giving a wad of paper to chew, as the rapid working of the jaws stops the flow of blood; but why not try chewing gum instead of paper?

"The milk of human kindness should be allowed to stand over night in order to prove its quality."

"The majority of women spend their time in straining at the family tie in order to prove its strength."

It is believed by some that the time is not far distant when an honest man will actually command respect.

There is a mysterious game called "love in the dark." The mystery is due to the fact that young people who play it are inclined to be close-mouthed.—Chicago News.

Eggs and Toast—Eggs are composed of about 73.5 water, 14.9 protoid (strength giving material), 1.0 mineral matter, and 10.6 fat. The white of an egg is almost pure albumen and water; if eaten raw, it is assimilated nearly as it is. Eggs should never be cooked in boiling water, as the white coagulates, or becomes firm, at a very low temperature. The boiling water renders it tough and leathery, making it hard to digest.

REYNOLDS EXPERIENCE in HORTICULTURE.

PRUNING FRUIT TREES.

Horticulturists generally do the greater part of their pruning during suspension of growth. More pruning is done, probably, during the last winter and first spring months, than in the other ten months. Those having large orchards of different species of fruits generally practice pruning all through the winter whenever the weather will permit. Our old teachers of pomology used to recommend pruning in winter to promote growth of wood and in the month of June to promote fruitfulness. Doubtless, removing a portion of the top of a fruit tree, by thinning out superfluous branches, or by cutting back a portion of the growth of the previous year, thus throwing the sap into the remaining branches, will add to their thriftiness and cause the top to expand farther than if the wood of previous years were all left to share the sap, but good judgment must be exercised in the selection of the wood to be removed. The pruner should be able to render a good reason for every limb he cuts off. As a general thing, a young tree is allowed to throw out too many leading branches. Every one of those branches will throw out numerous others, and soon the top will become too thick, branches will cross, rub against and gall one another, too much fruit will set to be able to attain to large growth and healthy development, the rays of the sun will be excluded from a large portion of the fruit, so that it will not color up well, and it will be difficult getting around in the

top to prune it and gather the fruit. As a rule three, or at most four, original branches are enough to start the head upon a young apple tree, and they should be equally distributed upon the four sides. If every orchardist would start an orchard in this way and every year go carefully over the orchard, removing superfluous limbs, a pruning knife or pruning shears (which are preferable) would probably be the only instrument required in pruning, for many years. The most difficult question, in relation to the pruning of an apple tree, arises when an old orchard has been neglected for many years, and the top has become almost inaccessible because of the tangled mesh of branches. To properly thin the top at one pruning would probably tax its vitality too severely and it would be better to take two or three years to complete the operation. In such a tree it seems almost a necessity to cut off some branches that are too large to be removed with safety. I have seen old apple trees killing by cutting off branches four or five inches in diameter. If it is possible to thin the head by cutting off a number of small limbs, I would do so and spare the larger ones. If really obliged to cut off large limbs, would immediately cover the wound with grafting wax or paint. Of course, dead and decaying limbs will be promptly removed and those in contact with others causing abrasion. A tree retaining all of the top that it has grown will be more likely to form fruit buds because the growth will be less thrifty, but will not produce large, first class fruit. Indeed, fruit may be thinned to some extent by cutting out limbs filled with fruit buds, or, in case of peach trees, where the fruit is produced on wood of previous years growth, by cutting back a portion of the new growth laden with fruit buds.

Fruit bearing canes or shrubs may be safely pruned in April, after the new growth has started, and I have sometimes left them until then, that I might cut off the weaker buds on the ends of branches, leaving a good strong bud to form the fruit bearing branches. I have generally practiced pruning grape vines in the latter part of autumn, after the leaves have fallen, as the vines will bleed less than when removed in March or April. When I have failed to prune in autumn, I have preferred to let them remain until the buds have started and grown one or two inches. They will bleed but little then, much less than if pruned in March or April.—P. C. Reynolds.

The British public appear to have at last awakened to the fact that foreign fruits are not only worth eating, but that they are not so wholly unobtainable as has generally been supposed. The establishment of a direct line of steamers from Bristol to Jamaica brings that island four days nearer England than it was before, thus greatly facilitating the successful carriage of perishable goods.

Do not forget to build your ice house before it is too late. A suitable ice house for a farmer's family can be constructed at an expense of from \$10 to \$20. We have told many times how to build this ice house. If you do not know, there are carpenters in your locality who are capable of doing the work in a suitable manner.

By the use of cold storage and rapid transit the finest fruit from every land can be found in any large market, both in and out of season, for while the fruits of one hemisphere are first waking from their winter's sleep, on the other the summer sun has done its work and the ripened fruits are on their way to distant markets.

It is enough to have the love and do the duty in silence. We live not by bread alone, but by every word that proceeded out of the mouth of those we love. Out of the mouth, it is the spoken love that feeds. It is the kindness offered that furnishes the house.—W. C. Gannett.

Of course, there never can be one variety which will be best for all purposes, but it is perfectly possible to produce varieties which for their own special use can be relied upon to produce full crops of the best fruit without fail. All this can be done by careful selection and breeding.

ABOUT CLUBS.

If any reader will kindly get up a club for Green's Fruit Grower, let him write us for tempting offers in payment for his trouble. We will extend the same offers we made last year to those who will get up a club. Send for information.

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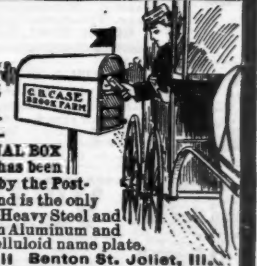
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Practical Poultry Pointers.

Never feed the poultry near the dwelling or throw out scraps of any kind to attract them near the house.

One of the secrets of success with poultry is not to keep any unprofitable birds; sell them as soon as possible.

As long as a really good hen is not too old to lay eggs, she is not too old to keep.

Forty hens can no more eat from one plant than 40 people. Broadcast the grain and provide long troughs for feeding soft food.

Buckwheat straw is very good for scratching material.

The roosts should be low, especially for the heavy breeds.

Keep the lice off your fowls and they will keep healthy.

Feed plenty of meat scraps if you want to get lots of eggs.

Keep plenty of fresh water where your fowls can get it.

A pale yolk is not an indication of poor quality in an egg.

Beware of drafts at night and you will prevent much sickness.

If you can secure milk to mix with your mash it will be profitable.

Don't keep a drug store for your poultry. They will do a great deal better if left alone than to be compelled to take drugs, teas and all sorts of condition powders. Doctor only when sickness appears.

If you are going to begin breeding fancy poultry, plan your work at once. Commence on a small scale and work up.

Don't move a hen you wish to sit to a new location in daylight.

Kindness prevents disaster.

There is only one way of making poultry mature early, and that is to keep them growing.

Indigestion in fowls is often the result of change of food, the fowls eating too much and too rapidly.

Crowded hens cannot do as well on egg production as hens that are not crowded.

Charred bone, as well as charred corn, is good for poultry.

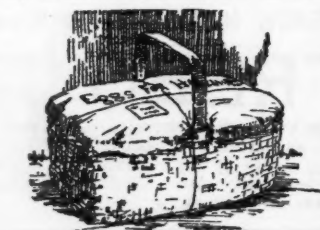
Give the hens all of the buttermilk and skim milk they will drink.

Milk is a great egg food, as it is chemically similar to the white of an egg.—New York Farmer.

"Alas! my Child, where is the Pen That can do Justice to the Hen? Like Royalty, she goes her way Laying foundations every day. Though not for Public Buildings, yet For Custard, Cake and Omelette. Or if too old for such a use They have their Fling at some Abuse. As when to Censure Plays Unfit Upon the Stage to make a Hit, Or at Elections Seal the Fate Of an Obnoxious Candidate. No wonder, Child, we prize the Hen, Whose Egg is Mightier than the Pen." —Oliver Hereford.



The above cut represents chicken coops made of old barrels covered with boards to keep out the sun and rain. These are inexpensive coops to be used only when the chickens are small.



This is a season when our patrons are ordering eggs for hatching. Above cut shows how eggs are packed for shipment. Eggs can be shipped in packages like this any distance safely. If the package is misused by the express company, the party ordering the eggs should not accept them, but should hold the express company responsible.

Hear the sledges with the bells—
Silver bells—
What a world of merriment their melody foretells!
How they tinkle, tinkle, tinkle,
In the icy air of night!
While the stars that oversprinkle
All the heavens seem to twinkle
With a crystalline delight,
Keeping time, time, time,
In a sort of runic rhyme,
To the tintinnabulation that so musically wells
From the bells, bells, bells, bells,
Bells, bells, bells,
From the jingling and the tinkling of the bells.
Poe.

Fruit Growing and Poultry.

T. R. Jennings, in Climate and Crops, says: "Many farmers are so situated that they can engage in two branches of light farming to considerable advantage. With a proper arrangement of buildings and yards it is quite possible to make poultry raising and fruit growing combine profitably, and to do so as well, with less expense, as with any branch of straight farming in connection with poultry raising. If small fruits are grown extensively it will be necessary, of course, to keep the poultry yards at some distance from the fruit plantation, but where orchard fruits are grown considerable saving can be effected by building at least a portion of the poultry yards in the orchards. It is not a good plan to build the houses in the orchards, but some portion of the ground devoted to runs should extend under the trees. This arrangement gives the fowls considerable shade without any detriment to the orchard. When arranged in this manner, especially if the orchard is young, the ground between the rows can still be cultivated to advantage. In no case should the cultivation of the orchard be sacrificed. The advantage of this combination lies in the fact that the fruit can be cared for at a time when the poultry requires but little attention. Farmers who are inclined to give up the heavier branches of farming for any reason should look into the possibilities of obtaining a good living from fruit culture combined with poultry raising."

The American hen laid last year a total of 10,000,000,000 eggs. The total value, at an average of 16 cents a dozen was \$138,000,000. The hen's earnings were greater than those of the entire postal system. The sum realized would have paid the expenses of the entire war department. The total weight of the eggs laid last year was more than 1,000,000,000 pounds. If the eggs were equally divided among the inhabitants of the country each human being would get 141. The number of chickens in the United States is estimated at 284,000,000.

Good profits can be made from poultry if one will but give them the proper care and attention. A New York school teacher, broken down in health, started with 50 hens and had 400 at the end of the year. He gave his entire time and attention to the business, and in one particular month marketed \$90 worth of eggs, receiving 18 cents per dozen. He gradually got a few thoroughbreds and in four years built up a business paying \$4,000 a year, part on thoroughbreds and part on market poultry and eggs.

Don't feed mash in the morning if you expect your eggs to be very fertile. Don't feed very extensively to your breeders either morning or evening. Don't let your hens get fat and lazy if you want their eggs to hatch well. Don't feed animals meal too often. Don't monkey with red pepper or other hot nostrums except in special cases, and then rarely. Don't go in very strongly for rich, spicy poultry foods, that you pay two or three prices for. Don't feed anything but fresh, wholesome grains and vegetables, with occasional entries of green bone or animal meal.

One important item in the hog's bill of fare is plenty of good, pure drinking water.



Every Chicken Man Needs a green bone cutter.

The Adam
alone is ball bearing, it cleans itself, it cannot become clogged or choked, it is fed at the pleasure of the operator. You will want to know of it. Send for our Illustrated Catalogue No. 10, before you buy. Sent Free.
W. J. ADAM, Joliet, Ills.

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INVINCIBLE HATCHER CO., SPRINGFIELD, OHIO.

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Buff, Wh. and Barred P. Rocks; Buff, Wh. and B. Leghorns; Buff, Wh. and Laced Wyandottes; I. Games; Minorcas, Brahmas, Ducks. EGGS—\$1.00 for 13, \$6.00 for 100. S. C. Buff Orpingtons, \$2.00 for 13; R. C. Buff Orpingtons, \$3.00 for 13. Established 29 years.
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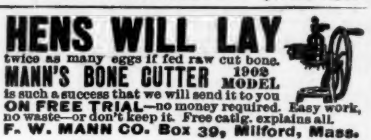
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Sixty at
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is needed to run the Sure Hatch Incubator. They are so simple that they run themselves. Made of California redwood, beautifully finished; twelve ounce copper tank, and hydro-safety lamp. Fully guaranteed. Our catalogue contains hundreds of photographs of the Sure Hatch Incubator at work, and valuable information. Sent free.
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Our Mammoth Poultry Guide explains all. Finest and most complete poultry book printed in colors. Get one and learn how to make poultry pay.
JOHN SAUSCHER, JR., BOX 43, FREEPORT, N.Y.

HENS WILL LAY
twice as many eggs if fed raw cut bone.
MANN'S BONE CUTTER 1902
is such a success that we will send it to you ON FREE TRIAL—no money required. Easy work, no waste—don't keep it. Free catalog explains all.
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MAKE HENS LAY

Nothing on Earth will do it like Sheridan's Powder.
Thousands of successful Poultry-Keepers all over the country owe no small portion of their success to the practice of mixing with the mash food given to their poultry every day, a small quantity of **SHERIDAN'S CONDITION POWDER**. It has been used and endorsed by Poultry-Raisers over thirty years, and for all kinds of poultry.

If you can't get the Powder sent to you. One pack, 25 cts.; five, \$1. Large two-lb. can, \$1.20. Six cans, exp. paid, \$5. Sample copy best Poultry paper free. **I. S. JOHNSON & CO., Boston, Mass.**
Please mention Green's Fruit Grower.

No, this is not a puzzle. Placed in line these figures read 342. That is just the number of first premiums taken by the

Prairie State Incubator

—more than all other makes of incubators combined have taken. That is fairly indicative of its superiority. That is why it is issued exclusively by the U. S. Government. In order that you may better understand it we have gotten up the most comprehensive and artistic catalogue of incubators ever published. Hundreds and hundreds of original photographs, colored plates, tinted pages, etc. We want you to have a copy. Send your name and ask for Catalogue No. 86.
Prairie State Incubator Co., Homer City, Pa.

BARRED PLYMOUTH ROCKS.

This breed is as solid as its name and is often called the "Farmer's Friend," the "All 'Round Fowl," the "Old Reliable." It is the bird for business, and deemed by many the best fowl for farm and home raising. It is not only a good layer, but is quick to develop for the early market. As a far-sighted farmer once said to us, "When you kill one you've got something." Barred P. Rock and White Wyandotte, good breeding cockerels, \$2.00 each; pullets, \$2.50 each; trios, \$6.00. Eggs in season from Prize Stock, \$1.50 for 13. Also, S. C. Brown Leghorn good breeding cockerels, \$1.00 each; pullets, \$1.50 each; trios, \$4.00. Eggs in season, \$1.00 for 15.
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contains Radish, 17 sorts; Lettuce, 12 sorts; Tomatoes, 11 rare; Turnips, 7 beautiful; Onions, 8 fine ones; 56 sorts in all, will be sent you with my new seed grower's Guide Book.

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See a bin and up-
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handsome lithographed and beautifully illustrated fully describing our special bargain offers in reliable Flower and Vegetable Seeds. You'll be interested in the catalogue and you will be pleased with our present. Write us at once.

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511 Race St., Rockford, Ill.

Geo. S. Josselyn

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5 Pkts. Choice Flower Seed including Gloxinia 10c.
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If the eggs are good and you put them in a **Reliable Incubator** and follow instructions, you are sure to get a satisfactory hatch. If you put the chicks into a **RELIABLE BROODER** you will raise every one that could be raised in any other way. Our 20th CENTURY POULTRY BOOK tells why and a hundred other things every poultry owner should know. Send for 10 cents. We have 115 yards of thoroughbred poultry.

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Count the Chicks

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The healthy egg becomes the vigorous, husky, money-making hen. You will want our beautifully illustrated catalogue. Five different editions in five languages. English edition 4 cents; others free. It is a poultry bible.

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Disease of Fowls.

The most troublesome diseases of fowls, with their causes, may be summed up as follows:

Roup—Planted by "only a neglected slight cold." Cholera—Caused principally by overcrowding. Diarrhoea—Damp houses, filthy houses and runs, and bad feeding. Canker—Dampness and filth. Diphtheria—Roosting in draughts, also damp houses. Ulcerated Throat—Ditto. Consumption—Neglected cold. Apoplexy, Vertigo and Epilepsy—Overfeeding. Sore Eyes—Damp houses. Costiveness and Constipation—Improper food. Soft and Swelled Crop—Overfeeding. Indigestion and Dyspepsia—Ditto. Dip—Damp quarters. Bronchitis—Ditto. Black Rot—Result of indigestion. Soft Eggs—Overfeeding. Gout, Rheumatism and Cramp—Damp houses. Leg Weakness—Inbreeding and overfeeding. Bumble Foot—High perches. Scaly Legs—Filthy and damp quarters.—Tennessee Farmer.

Soaking whole grain by pouring boiling water over it and allowing it to remain for twenty-four hours, will cause it to swell and prove an acceptable change to the fowls. The soaked grain undergoes a partial chemical change, contains a slightly larger proportion of sugar and is really more digestible. Nothing is added to the grain by soaking it, but it will be more rapidly eaten for a while than dry grain, though the birds will return to dry grain as a pretence, if fed too long on that which is soaked.—Fanciers' Monthly.

He kept his soul unspotted
As he went upon his way,
And he tried to do some service
For God's people day by day;
He had time to cheer the doubter
Who complained that hope was dead;
He had time to help the cripple
When the way was rough ahead;
He had time to guard the orphan, and,
One day, well satisfied
With the talents God had given him, he
Closed his eyes and died.
New York Witness.

The Horse Ration.

We have always fed oats and bran, and continue to feed the same, says Rural New Yorker. We believe that the price of other grain has advanced in harmony with oats, therefore there could be no economy in substituting other feeds in the place of oats. In this state, and in other corn-raising states, the farmers feed principally corn to their horses, because it is cheaper than oats, and horses can be kept more economically. Corn costs more per bushel, but it goes very much further, so that the same money invested in corn as in oats will last longer. We do not feed corn, because we think oats much better. In regard to feeding brewers' grains we have had no experience, but we do mix a little oilmeal with our bran and oats. The horses do not like the oilmeal quite so well as they do the feed without it, but after they become used to eating it we think it is a good ration to mix with out other feed in small quantities.

Devotion neither stops work nor stops for work.



GREEN'S BLACK TARTARIAN CHERRY

Better to lose your argument than your friend.

It's a wise man who can be silent on any subject.

Only those who sympathize with others can serve them.

Some churches mistake racket for results in their machinery.

The worst cares to take care of are those we borrow or steal.

Wherever you go carry the oil of kindness in the can of courtesy.

It is easier to recover from a noble failure than from an ignoble success.—Ram's Horn.

A traveler for a firm of jewelers was recently before the courts charged by his employers with theft. While on a business trip he had not only raised money on his personal belongings, but also on the valuable samples committed to his charge. The entire proceeds had been spent by him on expensive Havana cigars—45 of which he was stated to have smoked in less than 24 hours! Evidence went to prove that for years past he had been in the habit of smoking as many as 20 cigars a day. This works out to 140 a week, and in the course of a year would total 7,280 cigars.

The principal events which occurred during the administration of Washington as president of the United States were the Indian war on our Western frontiers, the Whiskey Insurrection in Pennsylvania, Jay's Treaty with Great Britain and the establishment of a national bank and mint.

Put a seal upon your lips and forget what you have done. After you have been kind, after love has stolen forth into the world and done its beautiful work, go back into the shade again and say nothing about it. Love hides even from itself.—Professor Drummond.

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FOR THE WIFE AND CHILDREN.

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and a good deal more reliable. Doesn't break its eggs or make the chicks lousy. Does its duty off the nest and allow the eggs to hatch every egg that can be hatched.

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Is absolutely perfect as to incubator essentials—proper application and distribution of heat and moisture, regulation and ventilation. For 54 to 324 eggs. We Pay Freight anywhere in U. S. Catalog free.

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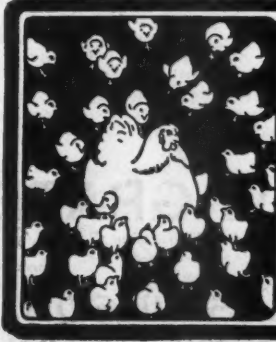
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they come off for the man who uses
THE NATURAL HEN INCUBATOR.

Beats any plan yet devised. Costs you nothing if you follow our plan. We have an agents proposition that is the best money maker you ever heard of. Don't wait until your neighbor gets ahead of you. Catalogue and 10c Egg Formula free if you write to-day.

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B-72, Columbus, Neb.

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\$49.00. Different from the ordinary buggy, in our latest style for 1902. We use Long Distance Axle with bell collar which keeps out all dirt and mud, runs 1000 miles without reoil. Combined Quick Shift Shaft Coupler and Anti-Rattler, positively prevents all rattling, can change from shaft to pole in one minute. Wheels and gear, every stick of timber guaranteed best second growth hickory, every forging and bolt best Norway iron. (Wheels furnished any size.) Plane Body, 50, 52 or 54 inches wide, 55 in. long. Covering Body, 44 in. wide. Spring cushion and back, upholstered with best grade gold figured green velvet or walpole cord high wings on seat cushion. Top lined with a special light color to match seat trimmings, edges of top lining pinked, back stays pinked and stitched a special design to match top lining, bottom of body and panels carpeted to match trimmings. (Leather or dark broadcloth trimmings, dark top lining and carpet to match when desired.) Dash rail, panel back rail, prop axle, seat handles and hub caps. We use special care to have them all perfect. We give you choice of any style upholstery and any style and color painting you prefer, but sell direct to you at wholesale prices. We ship subject to examination without any money with order, and if you are not satisfied in every way, and do not feel you have saved money and have a better buggy than you could have bought elsewhere for anything like our price, return to us and we will pay all freight. We warrant our buggies 3 years and guarantee safe delivery. Do you want, or are you interested in any way in a vehicle or harness of any kind? Then send for our new free vehicle Catalogue. We have all styles at prices that will interest and save you money.

Nickel Mountings. Dash rail, panel back rail, prop axle, seat handles and hub caps. We use special care to have them all perfect. We give you choice of any style upholstery and any style and color painting you prefer, but sell direct to you at wholesale prices. We ship subject to examination without any money with order, and if you are not satisfied in every way, and do not feel you have saved money and have a better buggy than you could have bought elsewhere for anything like our price, return to us and we will pay all freight. We warrant our buggies 3 years and guarantee safe delivery. Do you want, or are you interested in any way in a vehicle or harness of any kind? Then send for our new free vehicle Catalogue. We have all styles at prices that will interest and save you money.

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SEE SEED DROP IN PLAIN SIGHT. Double Wheel Single Wheel Hoe, Cultivator, Plow, Hoe, and Flow, Adjustable, runs easily. The only implement made which can be used as a hoe and cultivator. 1 or 2 wheels as desired. Quick change. All kinds of Labor-Saving Attachments. All our implements are guaranteed made of best material, finely finished and have tough Oak bent handles. Popular Prices. Improved for 1902. Send for catalog describing complete line and book.

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CATALOGUE FREE.

All new and leading sorts. Prices right. Send list of kinds wanted for special prices. Full line of trees, plants and vines.

ARTHUR J. COLLINS, MOORESTOWN, N. J.

EVERY FRUIT GROWER Should Read R. M. Kellogg's New Book ENTITLED

GREAT CROPS OF STRAWBERRIES

AND HOW TO GROW THEM. The author has grown the largest crops of fancy fruit ever produced on an acre. In his experimental grounds are single plants which yield over FOUR QUARTS each of fine large berries. His customers have done as well. This has been accomplished by **SCIENTIFICALLY BREEDING** up plants to a high fruiting vigor so that they throw their energies to the development of fruit instead of useless runners. The profit comes from a big crop of big berries that sell at sight to regular customers. This book tells you all about how it is done. **THE CHEAPEST PLANT** is the one that will give you the best fruit and most of it. You can't afford to play second fiddle on the market by using scrub plants. The only stock of scientifically grown thoroughbred plants in the country for spring planting. Send your address at once and get it FREE. Address

R. M. KELLOGG,
Three Rivers, Mich.

EVERGREENS Hardy sorts, Nursery grown, for wind-breaks, ornamental and hedges. Prepared \$1 to \$10 per 100-50 Great Bargains to select from. Write at once for free Catalogue and Bargain Sheet. Local Agents wanted. **D. Hill, Specialist, Dundee, Ill.**

PINK QUEEN The finest pure Pink Gladioli. Will sell a limited number at \$1.00 per dozen, postpaid. All good large bulbs. **ISAIAH LOWER,**
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SEED BOOK FREE

Do you want one? Handsomely illustrated with photographic reproductions from nature. Contains many colored plates, and is filled with bargains that will surprise you. No other seed book like it.

140 Varieties, 12 Cents.

5 kinds of Best Beets, 10 of the Grandest Cabbages, 10 of the Cheapest kinds of Lettuce, 6 of the Greatest Onions, 2 Grand New Tomatoes, 100 kinds of Gorgeous Flower Seeds, making in all 140 sorts, which will produce bushels of choice vegetables and immense quantities of lovely flowers, all for 12 cents and addresses of three friends who buy seeds and plants. Seed book free. Write to-day. **F. B. MILLS, Seedman, Box 50, Rose Hill, N. Y.**



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We have a large assortment of all kinds of Apple, Pear, Plum, Peach and Cherry trees, also small fruit plants at low prices, but are making bargain prices on the following varieties:

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This new and valuable prune introduced by us for the first time last fall, has been thoroughly tested by prominent orchardists. We offer free one Thanksgiving Prune Tree, 2 years old, with each order of \$10.00 or more. New illustrated catalogue mailed free.

GREEN'S NURSERY CO.,
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PROF. H. E. VAN DEMAN'S

Answers to Inquiries.

Editor Green's Fruit Grower:

Could you please give me some information in early copy of your paper about the plum "curculio"? They were very destructive to my plums last year. I shook off all I could, but that is very slow and difficult.

Is there no preventative?

How do they breed?

Where does the insect that produces them remain in winter?

What becomes of them when they have done their work in summer?

I have written to "Gov. Expt. Station," but have received but little information.

If you can give me any in your paper, you will greatly oblige, yours truly,

Mrs. Lucy Reed, Tenn.

Reply: The plum curculio breeds by laying eggs in the young plums and peaches, and when they hatch and grow into little worms they cause the fruit to sicken and fall to the ground, when they crawl into the earth and live there until they are ready to come out and go to work laying more eggs. The mature bugs live over winter and when spring comes they waken from their dormant state and are ready for the young fruit as soon as it is big enough to receive their eggs.

There is no way to spray for them, nor do I know of any other way to destroy or prevent them except to jar the trees and catch them on a sheet rigged for the purpose. It is slow, but it is the only sure way. There are catchers of this kind made ready for the work, or, one can make very simple ones at home. Many of the plum orchards of the east-

Discovery in Rheumatism.

The Philadelphia Inquirer of recent date contains an account of a most remarkable discovery for the cure of rheumatism and neuralgia by the active principle of the bark of a certain kind of willow tree which has the wonderful power of neutralizing the acid in the system so that rheumatism affections cannot exist. Dr. Stephenson, of 2 Irvington St., Boston, Mass., is the successful specialist who has the honor of discovering this certain cure. The Inquirer wired its Boston correspondent to interview the doctor and this is what he said regarding his discovery: "I tested this remedy in hundreds of cases before I made it public. I can cure rheumatism, neuralgia, lumbago, sciatica, gout, etc., without disturbing the stomach in the least, and in a marvelously short time. I do not know the limitations if there be any, for nearly all cases which I have taken have been pronounced as hopeless. I have recently so thoroughly perfected it, that I can cure a person just as surely by sending the treatment direct to their home, if they write me a full description of their case, as by talking to and treating them in person." Should any of our readers be interested it would be to their advantage to write him.

NEW GRAPE

Wonderful McPIKE—has taken all premiums over all competitors wherever exhibited. Also, all other varieties, new and old. Price list free.

SILAS WILSON,
ATLANTIC, IOWA.

ern states are protected in this way. The same is true of some of the large peach orchards of Georgia, where thousands of dollars have been saved in this way.

Mr. Green: We have about one-half dozen pear trees planted four or five years ago, and every spring they start to leave out and blossom full, then the leaves and blossoms all turn brown and fall off, as if they were dead; then they leaf out again and grow nice all summer. What is the matter and what can we do with them? They never set for pears. My husband threatens every spring to cut them down, but has not done it yet.

Mrs. B. J. Van Buren, Michigan.

Reply: It is almost certain that there is a fungus disease working on the leaves and flowers of these pear trees. The germs which cause it are probably on the bare branches before the buds open in the spring, and as soon as the young leaves and flowers appear they germinate and cause the trouble mentioned.

The remedy is bordeaux mixture. It should first be applied just before the buds open, in order to kill as many as possible of the spores before they germinate. As soon as the flowers are out of bloom, a second spraying of the same material should be given, with the addition of one of the arsenical preparations added, in order to destroy the insect enemies at the same time. This latter is so cheap and effective that it should not be omitted. Full directions for preparing and applying those remedies are given in the bulletins of the experiment stations of every state.

Which is the best of all the red raspberries for general use, and which of the blackcaps? How should they be planted and grown to get the best results?—F. C. W., of N. Y.

There is no doubt that Loudon is the best of the red raspberries for general purposes. It is almost universally liked wherever this class of our fruits succeeds. Kansas is perhaps the best of the blackcaps, although there may be some difference of opinion on this point.

Either kind should be planted in rows about seven feet apart, and the plants three feet in the row. The cultivation should be as thorough as is possible with the horse and cultivator. A good mulch of coarse manure in the row is also very helpful.

What kind of an apple is the Opalescent, and is it worth planting in the central states. Where did it originate?—A. A. G., of Ohio.

The Opalescent is a rather large and showy apple, of only fair quality, that has only been introduced a few years, and is not likely to prove of much value in any part of the country. It is not a late keeper. It originated in Michigan, and has been tested quite well there, and to a limited extent in Ohio and some other states, but with no very promising results.

What is the proper time and method for grafting cherry trees, and what is the best stock? Can the sweet cherries be grafted on to the sour kinds and the sour on the sweet?—W. B. A., of Pennsylvania.

Reply: Cherry grafting is a rather difficult operation under any conditions, because the stock and scion do not unite in many cases, and when they do unite there are many cases in which the union is so imperfect that the graft does not flourish and sometimes breaks off. Budding is usually the better way to change the tops of cherry trees, but it is necessary to first cut back the larger branches of a large tree and cause sprouts to grow that can be successfully budded. When grafting is done on cherry trees, (and the same is true of the plum,) it should be early in the spring or very late. In either case the scions should be cut very early and kept in a moist and very cool place, where there is no danger of their buds starting. The cleft graft is the common and perhaps the best method to use. Great care should be used to split the stock with a thin bladed knife that will cut its way down instead of tearing the bark open, where the scion is to be matched to it. If the work is done late in the spring, the leaves should be allowed to begin to show, when the bark will peel easily and the most extreme care will be needed to prevent starting it from the wood. If the scions are entirely dormant and plump there is a greater chance of success by this method than by any other.

The sour and sweet cherries do not unite well, no matter which is the stock or scion. They are quite unlike in wood and growth and unite very poorly. The Mabelle, which is a French cherry stock is the best one for the sour kinds and the Mazzard for the sweet and heart varieties. Our native wild cherries have been tested as stocks and found of no value, because they rarely unite.—H. E. V. D.

"Willie, whom did George Washington marry?"
"The Widow Custis, ma'am."
"Had he any children?"
"Yes'm—the sons and daughters of the Revolution."—Life.

I WILL CURE YOU OF Rheumatism

No Pay Until You Know It.

After 2,000 experiments, I have learned how to cure Rheumatism. Not to turn bony joints into flesh again; that is impossible. But I can cure the disease always, at any stage, and forever.

I ask for no money. Simply write me a postal and I will send you an order on your nearest druggist for six bottles of Dr. Shoop's Rheumatic Cure, for every druggist keeps it. Use it for a month, and if it does what I claim pay your druggist \$5.50 for it. If it doesn't, I will pay him myself.

I have no samples. Any medicine that can affect Rheumatism with but a few doses must be dragged to the verge of danger. I use no such drugs. It is folly to take them. You must get the disease out of the blood. My remedy does that, even in the most difficult, obstinate cases. No matter how impossible this seems to you, I know it and I take this risk. I have cured tens of thousands of cases in this way, and my records show that 39 out of 40 who get those six bottles pay, and gladly. I have learned that people in general are honest with a physician who cures them. That is all I ask. If I fail I don't expect a penny from you.

Simply write me a postal card or letter. Let me send you an order for the medicine; also a book. Take it for a month, for it won't harm you anyway. If it cures, pay \$5.50. I leave that entirely to you. Address Dr. Shoop, Box 410, Racine, Wis.

Mild cases, not chronic, are often cured by one or two bottles. At all druggists.



Do you want a watch that runs and keeps good time? Our watch has a Gold laid case, handsome dial, dust proof, adjusted to position, patent escapement, and highly finished. This is a remarkable watch. We guarantee it, and with proper care it should wear and give satisfaction for 20 years. It has the appearance of a Solid Gold one. The movement is an American Style, expansion balance, quick train, and you can rely upon it that when you own one of these truly handsome watches you will always have the correct time in your possession. Just the watch for railroad men, or those who need a very close timer. Do you want a watch of this character? If so, now is your opportunity to secure one. We give a beautiful Watch as a premium to anyone for selling 15 pieces of our handsome jewelry for 10c. each, consisting of Handsome Ring, Ear Drops, Watch Chain and Charm, Handsome Scarf or Silk Pin, Ladies' Brooch or Lace Pin, Lockets, Earrings, etc. Simply send your name and address and we will send you the 15 pieces of jewelry postpaid. When sold, send us the \$1.50, and we will send you the handsome Gold laid watch. We trust you will take back all you cannot sell. We propose to give away these watches simply to advertise our business. No catch-words in this advertisement. We mean just what we say. You require no capital while working for us. Satisfaction Guaranteed. Address, **SAFE DEPOSIT WATCH CO., New York City**

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Choicest new and staple varieties by mail or express, guaranteed to arrive in perfect condition. We refer to many thousands of satisfied patrons during our 25 yrs. as strawberry culturists. Our 1902 catalogue contains valuable information and tells about 47 choice varieties. It is authority on the subject. FREE, write for it to-day.

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Box 1001. Cuyahoga Falls, Ohio.



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Our New Catalog tells all about it. Send for it. Senator Dunlap, Rough Rider and 75 other Strawberries. Bargains in New Varieties. **SEED POTATOES.** Flansburgh & Peirson Leslie, Mich.

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The earliest and most productive Blackberry variety. Very large, jet black, firm and solid. Crop ripens rapidly. This is the berry to plant for profit. Write at once for prices and particulars. **Myer & Son, Bridgeville Nurseries,**
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The Bachelor's Lament.

Who collars all my scanty pay,
And with my little plans makes hay?
Who says mamma has come to stay?

Who takes away my easy chair
Because "it has no business there,"
And only says she doesn't care?

Who thinks that I must ride a bike,
And makes me do what I don't like,
And tells me if I don't she'll strike?

And when I'm feeling sad and low,
Who sympathizes with my woe
And softly breathes, "I told you so!"

Reply: NO ONE! I am a bachelor.
—London "Punch."

The Ideal Farm Home.

Forty years ago this subject would have meant something quite different from what it does at present, says Indiana Farmer. Then a plain frame building, with plastered walls and a brick chimney would have seemed a great advance on the double log cabin, with its stick and mud chimney at either end, the well sweep in the yard, chickens roosting in the trees or on the rail fences. A pile of logs in the front yard was not deemed out of place in early days, and shade trees, shrubbery and flower beds were exceptional, if not unknown.

The ideal farm home as we now regard it, must have many ornamental features and numerous conveniences that in pioneer days were unthought of. As to externals our first thought is regarding walks and drives. They should be dry and clean. Mud should not be tracked into the house, and to prevent this gravel should be used freely, not only to make walks to barnyards and outhouses, but to build drives from the road in front to the wagon shed in the rear. A shed or covered way ought to extend from a side porch of the house to the drive so the ladies can enter or depart from the carriage dry shod. It must have a telephone connecting with all the neighborhood and the towns and villages near. It can have a daily mail, which it easily can have if the roads are what they ought to be. It must have shade trees, vines, shrubbery and flowers in the blue-grass lawn, and a small fruit as well as a vegetable garden, well stocked with the best varieties and well tended, and it should be convenient to the kitchen, so as to be most available and useful.

As a standard of the measurement of progress in this direction, the speaker took the time of Washington. He averred that the fruits of the time of Washington were known as apples, pears and peaches, and that a differentiation of the species was unknown, and the same was true of flowers. The speaker held that the value of this learning and progress in its effect of the development of the child could scarcely be overestimated. Professor Bailey said the knowledge of Nature possessed by the child was gained almost entirely through his association with plants and animals, and that everything which made for a closer association of this kind was a potent factor in shaping the character of the coming generation. Among the innovations urged by the speaker was the establishment of gardens, not necessarily pretentious, in the vicinity of all public schools. He also thought the parks, while not being made less ornamental, might be made more useful, and especially more useful to children, not only as play grounds, but as schools of nature.

A New Treatment for Deafness and Catarrh.

Bradford McGregor, of Cincinnati, O., a well known demonstrator of applied sciences, asserts as a fact that catarrh and deafness can be cured, this assertion following his personal experience. Having suffered for years with catarrh, which resulted in very poor health and almost total deafness, his condition became such that specialists refused longer to treat him, saying his case was hopeless. Thus thrown upon his own resources, he finally devised a new method of treatment based upon a principle entirely different from anything he had ever used or heard of, and cured himself with it. His hearing is perfect now, health good and no catarrh. The success of this remarkable treatment in the many tests made upon those similarly afflicted has been phenomenal, and to further extend its usefulness and to prove that it will cure, a free trial and full explanation will be sent by Mr. McGregor to any who suffer and will address him at 433 Lincoln Inn Court, Cincinnati, O., and send twenty cents to pay the expense only for registering and mailing.

A Chinese Banquet.—"Reader:" A writer in the Leisure Hour gives an excellent description of a Chinese banquet: For the first course were handed sugared cakes, caviale, fried grasshoppers, dried fruits and Ning-Po oysters. Then followed, successively, at short intervals, ducks, pigeons' and peewits' eggs poached, swallows' nests with mashed eggs, fricassees of ginseng, stewed surgeons' gills, whales' sinews with sweet sauce, fresh-water tadpoles, fried crabs' spawn, sparrows' gizzards, sheep's eyes stuffed with garlic, radishes in milk flavored with apricot kernels, matelotes of holothurians, bamboo sprouts in syrup and sweet salads. The last course consisted of pineapples from Singapore, earthnuts, salted almonds, savory mangoes, the white fleshy fruits of the long-yen, the pulpy fruits of the litchee, chestnuts and preserved oranges from Canton. After the dessert rice was served, which the guests raised to their mouths with little chopsticks, according to the custom of their country. Three hours were spent over the banquet. When it was ended, at the time when, according to European usage, salvers of rose water are frequently handed round, the waiting maids brought napkins steeped in warm water, which all the company rubbed over their faces, apparently with great satisfaction.

The Champion is considered one of the best mid-season varieties. It is a large, white peach, closely resembling the Bokara No. 10. A Champion measuring nearly eleven inches in circumference was picked by Mr. Fletcher from a limb that had been broken down by the wind, but was not entirely severed from the tree. It is his opinion that peaches grown on such limbs will be larger than others, and that a small wire tied around a limb early in the season will cause the fruit on that limb to grow extra large. Other standard varieties are Early Rivers, Hills Chili and Elberta, Stump, Salway.

We all learn to feel resignation over the trials of our friends.

When a woman can't shop for herself the next best thing is to shop for somebody else.

Women don't carry on half as much over the death of a near relative as they do over the sickness of a dressmaker who is working for them.

When a woman gets up in the morning why does she always peep in the looking glass before she gets down on her knees to say her prayers.—New York Press.

Did not Jesus say, "I am the door of the sheepfold"? What to us is the sheepfold, dear children. It is the heart of the Father, whereunto Christ is the Gate that is called Beautiful. O children, how sweetly and how gladly has he opened that door into the Father's heart into the treasure chamber of God! And there within he unfolds to us the hidden riches, the nearness and the sweetness of companionship with himself.—John Tauler.

Actions may speak louder than words, but they don't lie as loud.

Postage stamps are egotistical when they are stuck on themselves.

The masculine animal doesn't cut much ice from the time females cease to slobber over him as an infant until they begin to kiss him as a man.

John E. Dardis, a policeman of Winsted, Ct, saw snow falling the other morning and put on a pair of heavy trousers. He had a hurry summons down town and jumped into the trousers and left the house on a run. He had not gone far, however, before something began to sting, and he stopped in a clothing store to investigate. A number of hornets had built a nest in one leg of his winter trousers and resented his intrusion.

At the old-fashioned inns and restaurants in Sweden it is customary to charge less for women than for men, on the theory that they do not eat so much. At some hotels in Sweden a man and wife are charged as one and one-half persons if they occupy the same room. A husband and wife may travel as one and one-half persons by railway, and also by post routes, furnishing their own carriage.

Stop looking for trouble, an' happiness'll look fer you.—The Advance.

Shallow men believe in luck; wise and strong men in cause and effect.—Emerson.

Value of Trees.

All trees "draw" the ground, says Texas Farmer. They do not monopolize the plant food so much as they do the water supply. The roots of most trees extend laterally as far as the height of the trees, and for a distance of half their height it is impossible to grow anything. This is the reason why so many farmers will hardly tolerate a tree or a hedge on their place except around the house. But trees are of great value, as shade for stock and as wind breaks, and a fine avenue of uniform trees adds much to the beauty of the landscape. By digging deep trenches on the sides of tree rows or hedges next to adjoining orchards or fields and cutting off the lateral roots the shade trees will not "draw" the ground. Such a trench can be cut with a heavy plow by running one furrow in the bottom of the other, and carrying an axe to cut the big roots. The furrow can be turned back and smoothed. Such a furrow will need opening every other year, as tree roots grow rapidly in the tilled ground.

Old age is a tyrant who forbids, at the penalty of life, all the pleasures of youth.—Rochefoucauld.

To be faithful in darkness, that is the supreme test to which the human spirit is subjected.—George S. Merriam.

Heiskell's Ointment

Cures Skin Troubles When Everything Else Has Failed. Try it on an obstinate case of Tetter, Erysipelas, Eczema, Pimples, Ulcers, Ring Worm, Blotches or any Skin Disease. Ask your druggist for it. By mail \$1.00 a box. Heiskell's Soap, for the skin, 25c.

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The plating I did last year gives perfect satisfaction." W. F. STIGLITZ, of S. C., writes: "Anyone can do fine plating on your outfit. I find them exactly as represented." B. F. HOWARD, writes: "Am well pleased. Have more plating than I can do." MRS. C. J. ARMITAGE, writes: "Anyone can do good plating by your process. I had no trouble." MRS. L. M. ANDERSON, of IOWA, writes: "I made \$3.30 to \$6.50 a day. Well pleased. Gray & Co., were very kind to me." Hundreds of others are making money. So can you. Investigate. Costs nothing. Simply write us. Do it today. Let us start you. Gentlemen or ladies can positively make \$5.00 to \$15.00 a day at home or traveling, taking orders, using, selling and appointing agents for Prof. Gray's latest improved machines for doing gold, silver, nickel and metal plating on watches, jewelry, tableware, bicycles, all-metal goods.

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The "1900" Ball-Bearing Washer is unquestionably the greatest labor-saving machine ever invented for family use. Entirely new principle. It is simplicity itself. There are no wheels, paddles, rollers, cranks or complicated machinery. It revolves on bicycle ball bearings, making it by far the easiest running washer on the market. No strength required, a child can operate it. No more stooping, rubbing, boiling of clothes. Hot water and soap all that is needed. It will wash large quantities of clothes (no matter how soiled) perfectly clean in 6 minutes. Impossible to injure the most delicate fabrics. Saving in wear and tear of clothes, to say nothing of the saving in soap and materials, pays for machine in a short time. Don't be prejudiced. This is entirely different from and far superior to any other washing machine ever made.



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Respectfully yours,

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Notes from the Recent Western N. Y. Horticultural Meeting.

The size of grapes are governed by the number of seeds they contain. If you find a small grape in the cluster, you will notice that it often contains but one seed where the largest may contain five seeds. Many varieties of grapes need fertilizers, their own blossoms will only partially fertilize them, hence the necessity of having different varieties growing in the same vineyard. The same is recommended for apples, pears, plums, etc.

It is doubtful whether Baldwin apples or any other apple that bears only alternate years, can be made to bear annually by thinning the fruit, and yet, possibly, if you begin to thin fruit when the tree is young and continue it each season, you may make an annual bearer of any variety. Some varieties of apples are annual bearers while others like Baldwin are not. Hubbardston, Rome Beauty, and many other varieties are annual bearers.

The large sized apple barrel has proved satisfactory alike to the purchaser and shipper. Boxes for shipping apples have not been used largely by our fruit growers. Those who buy fruit for shipping prefer to buy it by the barrel, or as in the case of cherries by the basket. These men employ cheap help to sort and pack the fruit in attractive boxes, thus making much larger profits. But it is profitable for fruit growers to do this work themselves and to receive the additional reward, but in that case they would probably have to ship it direct to the commission house in the distant city instead of selling it to their local buyer.

It is recommended that all superior apples should be wrapped each in paraffine paper cut 12x12 inches. One such wrapper is enough for one apple. Experience has proved that apples thus wrapped are protected from the air, and will keep either in cold storage or in an ordinary cellar far longer and in much better shape than apples not wrapped. Apples are sometimes packed in barrels in layers, first a layer of dry forest leaves, then a layer of apples, then more leaves, another layer of apples, and so on until the barrel is full. A barrel thus packed can be sorted in an ordinary barn during a severe winter without injury to the apples. If it is headed up and barrels are tight the apples will come out in good condition in the spring.

Roxbury Russet is in demand in the German market. Several car-loads of this variety were shipped into this locality from the West. These apples are now being resorted and shipped to Germany. Western apples have a fine appearance, but do not keep so well as Western New York apples. Many Western apples are marked Western New York apples and are sold under that name. Superior apples are selling in Buffalo at 40 cents per dozen, others less perfect are selling at 20 cents per dozen.

California pear growers grade their pears so that a box contains 240 or 280, each pear wrapped in paper. Knowing just how many each box contains, the buyer who is often a poor figurer can tell just what his profits will be per box, knowing the number of pears in each box.

Caterpillars in orchards are not considered dangerous pests since they can be easily destroyed by spraying, if the same is done at an early date before the foliage is seriously impaired.

Rome Beauty apple, which originated in Western New York thirty years ago, became unpopular because it was not a thrifty growing tree in the nursery, and nurserymen could not make money in producing the trees. This variety is now becoming exceedingly popular throughout the West, and eastern fruit growers are just learning of its value, and are top grafting it into their orchards. It is recommended that orchardists plant Baldwin, Ben Davis, or Spy and top graft at least a few Rome Beauty. It is a good producer and holds well on the tree during heavy gales of wind since it has a long pliable stem.

Bing cherry is a marvelously large black cherry, somewhat late following

Windsor in date of ripening. It is the largest of all cherries. It is not inclined to rot. It has been known to measure four inches around. The trees are not so vigorous in growth as Tartarian or Windsor but it is a productive variety. Rome Beauty apple is liable to overbear, is not exceedingly large, but is uniform in size and of high color.

Red-cheeked Melocot is an old variety a parent of the Crawford. In old times it was a favorite peach, but of late years it has been overlooked. Now it is coming into favor again as a very valuable peach, yellow flesh, red cheek, ripening at a favorable date, after Elberta. It is hardy in bud.

Red June is perhaps the best of the Japan plums. While not a large plum it is the first to ripen, which is about the 20th of July, and it meets with a ready sale at profitable prices. It is a hardy tree and a variety that has come to stay, says Willard.

Vice-President J. S. Woodward spoke favorably of the Niagara peach, which he is growing quite largely. It is superior to Early Crawford in size, and a better grower, has a better leaf and is a little later than Early Crawford. Mr. Woodward has discarded the Early Crawford in favor of Niagara. Mr. Willard said that Niagara attracted great attention at the Pan-American at Buffalo, and that it is a large and superior peach.

Mr. Willard said he was one of the first to introduce Japan plums into Western New York. He began with Abundance, which was of fine quality but did not stand shipment so well with him as Burbank. Burbank blossoms later and is not so liable to be injured by late frosts, and this has been with him the favorite market variety bearing annually crops which have sold at profitable prices. He is not troubled with rot. He employs boys to go over the trees and pick off fruit which has been stung with the curculio, and which here and there shows rotten specimens, which if not taken away will communicate the rot to other fruits upon the same trees.

Hale is the best in quality of the Japan plums, but being a yellow plum is not so attractive in market. Other fruit growers are more successful with Abundance plum than with Burbank, as a market variety. October Purple is much like Hale plum. Wickson is very large and productive but does not ship so well as Burbank. Dikeman cherry is a very late variety ripening still later than Bing and valuable for that peculiarity. It does not do so well at Geneva as it does in Michigan.

Rathbun blackberry Mr. Willard has grown for three years and he has found it very large in size, and of very fine quality, perfectly hardy at Geneva, N. Y. Professor Beach said that Rathbun was one of the good varieties at Geneva, N. Y. Mammoth blackberry was very large but exceedingly soft. Rathbun is mentioned as being of remarkable size, perhaps the largest of all blackberries.

R. N. Kellogg, a well-known fruit grower of Michigan, delivered an interesting address on "The Strawberry," which we regret we have not room to copy in full. He said that fruit growers are far behind the times as compared with cattle, horses, sheep and poultry growers, in the matter of breeding. Inasmuch as plants and animals sprang originally from the same germ there is great similarity between the two great families, the animal kingdom on the one side and the vegetable on the other. If a man takes food into his stomach, a certain portion of this food produces brain, another portion produces bone, another hair, another the finger nails, another the flesh and so on. It is the same with the strawberry, which takes from the soil various forms of sustenance, a certain part of which produces leaf growth, another root, another seed, another pulp and so on. Reproduction is the great strain upon fruits the same as upon animals, hence the failure occurring where strawberries or other fruits are allowed to over-bear. Small specimens contain many seeds as large specimens, and when this loss of vitality is great it weakens the plants and they are not capable of producing large specimens. Reported for Green's Fruit Grower by the Editor.

Humility seeks neither the first place nor the last word.

Back issues of Green's Fruit Grower for sale, 10 copies postpaid for 10 cents. These are the former style, large pages. Address Green's Fruit Grower, Rochester, N. Y.



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Is Fruit Growing Overdone?

Written for Green's Fruit Grower.

The over doing of fruit growing has ever been a nightmare to many fruit growers, or those who would have become fruit growers had they not been possessed with great fears on the subject. There has never been over-production in this country, looking at the question in a broad sense. If there has seemed to be over-production it was simply a lack of distribution. Forty or fifty years ago, before fruit growing was considered a commercial pursuit, the farmer who brought into Rochester, N. Y., a few baskets of peaches, or apples found difficulty in selling them, and might have asked himself the question, "Is not the fruit business over-done?" We know now that it was not over-done, and that the reason why he did not sell his fruit more readily, was that people had not been educated to buy and eat fruit. Those were venturesome men who planted many years ago orchards and vineyards with the prophecy made on every side that fruit growing was over-done. The average reader has little idea of the immense amount of fruits of the various kinds produced at the present date. It may be doubted if one hundred people of the 75,000,000 of our population have a correct idea of the magnitude of the fruit business of this country. There was a time when Western New York was the center of fruit interest, and thus it was thought that no other locality could compete with it in the slightest degree. Now there are numerous localities in many sections of the country where fruit-growing seems to be as successful as in this famous locality, and in many parts of the country it is claimed that fruits do even better than in Western New York. Twenty years ago an apple orchard of fifty acres in Western New York was considered a marvel, but now such an orchard as this in many parts of the country would not be considered notable. In old times a vineyard of an acre or two was considered a vast enterprise; but now vineyards embrace hundreds and sometimes thousands of acres. About twenty years ago peach culture was almost given up as a failure, even in such favored localities as Western New York, while now peach culture has been extended into almost every state and territory, and where twenty years ago there was one peach tree planted there are now ten thousand or possibly fifty thousand.

The growth of the fruit industry all the way across the continent has been something marvelous. If an exhibition could be made of all the fruit grown in this country, loaded upon freight cars, and moved along one line of railroad, if such could possibly be done, the beholder would exclaim, "It is not possible that all this vast product can be sold or consumed!" And yet it is sold and consumed as the years go by, for while our people are being educated in the use of fruits, they have much more to learn in regard to their value as a wholesome and delicious diet.

Surely there will be seasons when the apple crop of a certain section, or the strawberry, peach, or plum crop, may be in excess of the demand in that particular section of the country, but if these same fruits could be widely distributed, to meet the wants of sections where they have no supply, it would all be consumed readily.

York Imperial Apple.

After about twenty years' personal experience with York Imperial, and a number of years' careful observation of its behavior in different counties of the state, I am satisfied that it varies greatly, both as to eating and keeping qualities, according to the section where it is grown. It is not a good apple in the fall or early winter either for eating or cooking, but when grown in a location to which it is adapted, and kept in shallow bins in a cool cellar, or better yet, a cave, it comes out in the spring a fairly good apple for any purpose. It will stand up longer and bear more handling than any of the finer varieties, and coming when all of the strictly high-class varieties are out of the market, it sells well. For this reason the growers of Franklin, Adams, York and some parts of Cumberland county have found it very profitable.—Rural New Yorker.

Cracked wheat is an excellent food for young chicks.

How to Drain Land Profitably.

On every farm there is probably some land that could be made more productive by underdrainage. Properly drained land can always be worked earlier, and more profitably. The best and most economical way to drain is explained in the book, "Benefits of Drainage and How to Drain," which is sent free by JOHN H. JACKSON, 102 3rd Ave., Albany, N. Y.

The Worth of a Smile.

The thing that goes the farthest towards making life worth while, That costs the least and does the most is just a pleasant smile. The smile that bubbles from a heart that loves its fellow men Will drive away the clouds of gloom and coax the sun again. It's full of worth and goodness, too, with many a kindness blent— It's worth a million dollars, and it doesn't cost a cent.

There is no room for sadness when we see a cheery smile— It always has the same good look—It's never out of style— It nerves us on to try again, when failure makes us blue; The dimples of encouragement are good for me and you. It pays a higher interest, for it is merely lent— It's worth a hundred thousand dollars and it doesn't cost a cent.

Baltimore American.

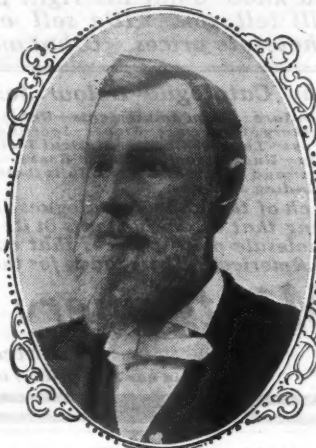
Best Tools for Fruit Growers.

F. S. Walbridge, a subscriber to Green's Fruit Grower, asks to be informed in regard to the best tools for orchard cultivation. I have often written on this subject, but perhaps more could be said with profit to our readers. We have used the Acme harrow for many years and consider it a valuable implement, not only for a fruit grower, but for the farmer and gardener. There is no one implement that will take the place of many other implements. Do not be afraid to invest in desirable tools for the cultivation of the soil. The disc harrow is used more generally and with better effects in orchards than any other one implement. Plows dig too deep, disturbing the roots, and are not used in orchards as formerly, except to turn sod, on crops grown as fertilizers. The disc harrow goes over the ground much more rapidly than the plow and does the work of plowing and harrowing at the same time. It is not desirable to cultivate deeply in the orchard, vineyard or berry field; in fact, it is injurious. The object in cultivating an orchard or any kind of fruit, plants, trees, or vines is to preserve continually two or three inches of loose soil over the entire surface, which acts as a mulch, holding moisture in the soil and preventing evaporation. This cover of loose soil over the earth produces the same result as though the surface was covered with layers of straw. All you need to do is to move this soil with disc harrow, or occasionally with an Acme harrow, at least once in two weeks, or once after each heavy rain. Disc harrows are made to be adjusted so as to run at one side of the team, running closely to the rows of trees or other objects without crowding the team or whipping trees onto the row; do not buy any other kind of disc harrow than this for orchard work. Every fruit grower or farmer must have a sharp tooth harrow. These are similar to the old style of harrow, excepting that the frames are of iron and that they are made to cover a wider surface. No one should be satisfied without the best plow made, and it should never be used without a good sharp point. There are numerous one-horse cultivators made in various styles and constructed so that by changing the teeth or other parts, one cultivator can be made to do many kinds of work, throwing the dirt toward the plant or away from it. The Planet Junior and Iron Age cultivators are among the best and are sold with equipments of teeth, etc. A one-horse weeder made of steel teeth that slightly scratches over the surface of the soil, destroys weeds just starting readily, in corn, and potatoes, but this implement should not be used by the fruit grower, except possibly in orchards where no small fruits are in the way.

Implements for spraying are numerous and among the most important. We use a two-horse spray wagon with tank mounted on two wheels, with the axle-tree bent high so as to elevate the platform and tank at least four or five feet from the ground, so as to straddle safely a row or two of trees or bushes. A two-horse spraying wagon works better than one-horse, since two horses pass each side of the row, keeping the wheels out of the way of the object sprayed better than by one horse. Further than this, the tank of water is usually heavy and cannot be easily drawn over loose cultivated soil by one horse. We spray our strawberry plants and almost everything in the way of trees, plants and vines. Almost all farms differ as regards soil, some clayey some sandy, others loamy or gravelly, therefore tools have to be selected which are suitable for the farms on which they are to be used. After having purchased valuable tools, keep them housed. Many people leave their cultivators and other tools in the fields all summer and often all winter, uncovered. More tools are damaged by exposure or for lack of housing, than by actual use.

DOCTORS ENDORSE SWAMP-ROOT

To Prove What SWAMP-ROOT, The Great Kidney, Liver and Bladder Remedy, Will Do For YOU, Every Reader of Green's Fruit Grower May Have a Sample Bottle Sent Free by Mail.



A. J. HAILE, M. D.

East Atlanta, Ga., March 1st, 1901.
Dr. Kilmer & Co., Binghamton, N. Y.:
Gentlemen—While it has never been my habit or inclination to recommend remedies the ingredients of which are not all known to me, it seems as if I should make an ex-

The mild and extraordinary effect of the world-famous kidney, liver and bladder remedy, Dr. Kilmer's Swamp-Root, is soon realized. It stands the highest for its wonderful cures of the most distressing cases.

Weak and unhealthy kidneys are responsible for more sickness and suffering than any other disease, therefore, when through neglect or other causes, kidney trouble is permitted to continue, fatal results are sure to follow.

We often see a friend, a relative, or an acquaintance apparently well, but in a few days we may be grieved to learn of their severe illness, or sudden death, caused by that fatal type of kidney trouble—Bright's Disease.

EDITORIAL NOTE—If you are sick or "feel badly," begin taking the famous new discovery, Dr. Kilmer's Swamp-Root, because as soon as your kidneys are well they will help all the other organs to health. A trial will convince anyone.

You may have a sample bottle of this wonderful remedy, Swamp-Root, sent absolutely free by mail, also a book telling all about Swamp-Root and containing many of the thousands upon thousands of testimonial letters received from men and women who owe their good health, in fact, their very lives to the great curative properties of Swamp-Root. In writing to Dr. Kilmer & Co., Binghamton, N. Y., be sure to say you read this generous offer in Green's Fruit Grower.

If you are already convinced that Swamp-Root is what you need, you can purchase the regular fifty-cent and one-dollar size bottles at the drug stores everywhere. Don't make any mistake, but remember the name, Swamp-Root, Dr. Kilmer's Swamp-Root, and the address, Binghamton, N. Y., on every bottle.

ception in the case of Dr. Kilmer's Swamp-Root. My experience, so far as I have tested it in my practice, forces me to the conclusion that it is a remedy of the greatest value in all kidney, liver, bladder and other inflammatory conditions of the genito-urinary tract. I now take pleasure in prescribing Swamp-Root in all such cases with a feeling of assurance that my patients will derive great benefit from its use. I shall continue to prescribe it in other cases in my practice with the expectation of good results.

Very truly yours,

A. J. Haile M.D.

Gentlemen—I have prescribed that wonderful remedy for kidney complaint, Dr. Kilmer's Swamp-Root, with most beneficial effect and know of many cures by its use. These patients had kidney trouble, as diagnosed by other physicians and treated without benefit. Dr. Kilmer's Swamp-Root effected a cure. I am a liberal man and accept a specific wherever I find it, in an accepted school or out of it. For desperate cases of kidney complaint under treatment with unsatisfactory results I turn to Dr. Kilmer's Swamp-Root with most flattering results. I shall continue to prescribe it and from personal observation state that Swamp-Root has great curative powers. Truly yours,

L. S. Benton M.D.
276 9th St., Borough of Brooklyn, N. Y.



THE WHITE WYANDOTTE

Is one of the handsomest fowls known; large size, good layers, and highly prized for their meat. The New York markets will, in time, more fully appreciate the value of the Wyandotte for its delicacy on the table of the epicure. It will be noticed that no breed has all the good qualities, therefore, if we want all the good qualities, we must have more than one breed, but surely no one can make a mistake in breeding the White Wyandotte, considering their beauty, egg laying propensities, and desirability in markets of the world. White Wyandotte and Barred P. Rock, good breeding cockerels, \$2.00; pullets, \$1.50 each; trios, \$6.00. Eggs in season from Prize Stock, \$1.50 for 13. Also, S. C. Brown Leghorn good breeding cockerels, \$1.00 each; pullets, \$1.50 each; trios, \$4.00. Eggs in season, \$1.00 for 13.

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Girls can get this beautiful Life Size Doll absolutely free for sending only four boxes of our Great Cold & Headache Tablets at 25 cents a box. Write to-day and we will send you the tablets by mail postpaid; when sold send us the money (\$1.00) and we will send you this Life Size Doll which is 24 feet high and can wear baby's clothes. Dollie has an indestructible head, golden hair, rosy cheeks, brown eyes, kid colored body, a gold plated beauty pin, red stockings, black shoes, and will stand alone. This doll is an exact reproduction of the finest hand painted French Doll, and will live in a child's memory long after childhood days have passed. Address: **NATIONAL MEDICINE CO.,** Doll Dept. 97 C, New Haven, Conn.

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Wire Stapled Machine made Berry Baskets made over forms, insuring them to be uniform in size, and they are neat, light, and durable. Made from basswood, poplar, and maple. Price, \$2.50 per M; in 10,000 lots at \$2.40 per M. Send 2 cent stamp for sample and circulars. **ANDREW REASH,** Mahoning Co., New Springfield, Ohio.

BERRY BASKETS.
We sell our machine-made standard quart Berry Baskets with staple in bottom, at \$2.40 per 1,000. Lower price in larger lots. Write for descriptive catalogue.

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Berry, Peach, and Grape Baskets and in the flat. Prices until June 1st: 1000 qts. or pts., \$2.50; 5000 qts. or pts., \$2.25; 10,000 qts. or pts., \$2.00; 20,000 qts. or pts., \$1.75.
WEST WEBSTER BASKET CO., Charlotte, Monroe Co., N. Y.

Berry Boxes and Baskets
Fruit and Vegetable Packages of every kind. Send for catalogue. **New Albany Box & Basket Co.,** New Albany, Ind.

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on any vehicle we make. Keep it if you like it, return it if you dislike it. We have you dealer and jobber profits. If you want to know more send for our free 22nd annual catalogue. **KALAMAZOO CARRIAGE & HARNESS MFG. COMPANY,** (Financiers of the Free Trial Plan.) Station 17, Kalamazoo, Michigan.

Hidden Uses of Trees.

Every leaf on a tree is unceasingly industrious day and night, says Chicago Post. Examine the linden leaf, or, in fact, any leaf will do—the truth applies to all—and notice how its surface is spread to catch the sunshine. The underside of the leaf has a different appearance. The tissue is tenderer and a network of breathing pores. A section placed under the objective of the microscope reveals tiny cells filled with a greenish liquid called chlorophyll, which plays an important part in the domestic economy of the tree. When undigested food from the ground has been carried to the leaves the chlorophyll seizes it, and under the influence of sunlight changes it to nourishment. The chlorophyll also breaks up the carbon dioxide which it comes into contact, and, liberating the oxygen, sends it out into the atmosphere.

Digested food materials are carried from the leaves to all parts of the tree and aid in its growth. Leaves as the lungs are necessary in the process of breathing. Like animals, the tree needs oxygen and breathes much after the manner of a human being. Not only is the life giving air taken into the lungs, or leaves, but it is inhaled through tiny openings in the bark, just as men and animals transpire through the skin. These tiny breathing holes are called lenticels, and may be seen plainly on the bark of cherry and many other kinds of trees. As the tree drinks water, it sweats and exhales water vapor along with the oxygen cast off from the carbon dioxide.

Tons and tons of moisture is evaporated from wooded areas. This is another beneficial act. Water vapor in the atmosphere is essential to agriculture. Trees transpire through cracks and fissures in the bark, where the lenticels are hidden from sight. This is especially true in old trees. From time to time scientists have computed the leaf area of trees and the results have been astonishing. An ordinary linden leaf has a surface of ten square inches. Multiply this by the number of leaves on a branch and calculate the leafage area of the tree. This entire surface is liberating oxygen and water vapor day and night.

Incompatibility of Youth and Age.

So different are colors of life as we look forward to the future or backward to the past, and so different the opinions and sentiments which this contrariety of appearance naturally produces, that the conversation of old and young ends generally with contempt or pity on either side, says Samuel Johnson. To a young man entering the world with fullness of hope and ardor of pursuit, nothing is so unpleasing as the cold caution, the scrupulous diffidence, which experience and disappointments certainly infuse; and the old man wonders in his turn that the world never can grow wiser; that neither precepts nor testimonies can cure boys of their credulity and sufficiency; and that no one can be convinced that snares are laid for him, till he finds himself entangled. Thus one generation is always the scorn and wonder of the other; and the notions of old and young are like liquors of different gravity and texture, which never can unite.

For the land's sake use Bowker's Fertilizers. They enrich the earth.

Do and Don't.

Plant different kinds of fruit trees, so as to be sure of a crop of some kind, says Garden and Farm.

The whole country would be beautiful if every home were adorned with trees and flowers.

Wood ashes spread around currant vines and red raspberries makes an excellent fertilizer.

If railroad corporations will plant trees along their lines they will be blessed in future years for their forethought.

Don't plant trees on the south side of a road; they keep out the sun and let in the winds, and the ground is a long time drying out.

Trees on the north side of a road protect from cold winds, and mud and ice disappear more rapidly under such conditions.

Plenty of shrubs and flowers around the house, add not only to the attractiveness of a place, but to its selling value as well.

If the fruit trees need pruning, it is easier to prune as soon as the necessity shows than after years of neglect.

When a tree is planted set a stout stake beside it and then tie the tree to the stake with a band of straw.

The pear tree is more liable to disease than any other fruit tree, unless we except the peach.

In manuring the orchard, remember that the roots of the trees extend as far out as the branches.

All fruit trees should be carefully labeled, so that the owner may know what he possesses.

The Apple.

The apple is destined, in the future as in the past, to lead in variety and value and quantity, as compared with the other fruit industries of the world, says Farmers' Tribune. In the United States we find a soil and a climate peculiarly adapted to the successful cultivation of this admirable fruit. As compared with the orange the apple flourishes in the snow belt as well as beneath the genial clime of the sunny south. Among the distinguishing characteristics of the apple is the abundance of its yield; its cheapness; its enduring qualities, and the numerous dispositions to which it can be utilized. The yield of this fruit in the United States is said to be 210,000,000 barrels per annum. In its natural state the apple is at its best. In this condition apples can be easily stored away, to be easily brought forth in suitable quantities in the winter months, when the flavor of the fruit is improved by having been stored away. Dried, they can be readily converted into toothsome pies, the delight of the school-boy; canned, they have a delicious taste of their own; made into apple pies and dumplings, we have a feast fit for a king; roasted or baked, the apple is still supreme; made into a cider, it becomes a brew fit for the gods. The countless other dishes to which this fruit can be utilized lead us to conclude that no other fruit can approach its excellence.

So far experience seems to indicate that it is a good practice to plant plum and apple trees in the early starting of a grove. They get the protection that is favorable to them, meanwhile the planter will receive much satisfaction and profit from the fruit they will produce.

Success and Failure.

It is a known fact that a large proportion of the men who have been eminently successful began with nothing, and worked their way up by sheer force of will, and we say of such men that they would succeed anywhere and under any circumstances, says the Cultivator. On the other hand there are men who seem as certainly bound to fail. May we not go further than this and assert that, as a rule, success or failure is not dependent on circumstances, but is inherent in the man?

Take for instance the farmer who lacks interest in his work, and who is perhaps more common than is generally supposed. He will argue on politics, criticize the management of town affairs, gossip about his neighbors, pore over the daily paper—these things he will do with evident zest. But try to get him to read something on farming, or to discuss new farming methods, and he is indifferent; the subject doesn't interest him, and he changes it at the first opportunity. Success is simply impossible with such a man.

The man who works his body too hard dulls his mind. He may not have a lazy bone in him, as the saying is, but he is mentally lazy, and the more he encourages this kind of indolence the less able is he to work intelligently. He gets to hate mental exertion. He would rather work a whole day than to save half of it by a little thinking. He doesn't want to try new and easier methods—it is easier, mentally, to drudge along in the old, hard ways and be a back number.

The Seckel Pear.

The Seckel pear is the sweetest and richest of all pears, says National Stockman. The tree is the hardest of all—almost free from blight. The fruit is small and not handsome. But nature often puts up the most precious things in small packages, and homely people are often the most amiable and useful.

Thousands of seedlings of this pear have been fruited but none of them equaled the parent. The seedlings are vigorous but show such variety that we infer the parent is a hybrid. Some are thorny, and some are smooth like the best cultivated sorts.

The Seckel has a peculiarity that is not often observed. From the time of its first ripened fruit until the last is three or four weeks. It should be gathered gradually, allowing three or four weeks for the last to ripen. A good plan is to shake the tree every few days and let the ripest fall. They are pretty solid and small and will not bruise if they have a soft place to fall. If the whole crop be taken at once a large part will be unripe. This gradual ripening is also noticed in the Bloodgood pear, but not so long continued as in the Seckel.

E. C. Crossman, of New York, recommends the readers of Green's Fruit Grower to plant peach trees not only in their gardens in the rear of the house but in clumps in one corner of the lawn, since peach trees properly trained and cut back each season are attractive particularly when in blossom or when filled with beautiful fruit. I have found that peach trees grown near buildings often succeed in localities where they would not succeed in open field on account of the severity of winter. Trees I planted have borne fine peaches this last season, and yet I live in Chautauque county where peaches do not generally succeed.

Would You Care

To be cured of stomach trouble, constipation, torpid or congested liver? Would you like to be sure that your kidneys are always in perfect condition? Would you wish to be free from bladder and prostate inflammation and from backache, rheumatism and catarrh? The Vernal Remedy company, Buffalo, N. Y., will send you free and prepaid a small bottle of their Vernal Saw Palmetto Berry Wine, which makes all of the above troubles impossible. One dose a day of this remedy does the work and cures perfectly, to stay cured. There is no trouble and but a trifle of expense to cure the most stubborn case. Write for a free bottle and prove for yourself, without expense to you, the value of these claims.

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Send us no money, simply write us and we will send the Supporters and large catalog of Premiums, charges paid. We trust you with them, so that you do not invest a penny. You have no risk whatever, for if you don't sell all of them you can send the balance back. When you have sold what you want to, send us the money you receive for them, and we will send you your selection of any of our premiums to which you are entitled.

We pay all freight. We pay all transportation charges on the Supporters, and also on your premium. From beginning to the end you invest nothing whatever. Here is a chance to earn any of a hundred premiums, in a few odd moments, without any investment or risk. At the same time you are furnishing your friends with Supporters for which each friend will thank you for showing her. Won't you write us today?

If you wish to see the Supporters before beginning to sell, send us 25 cents in stamps and we will mail you one.

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In addition to sending the 33 pkts (full size) of Vegetable Seeds for \$1.00 we will include ABSOLUTELY FREE one of Vaughan's Pruning Knives, which sell everywhere for one dollar. This knife is made of the best quality of steel, and is something which every gardener and farmer should have.

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CELERY.....Solid Ivory
CORN, SWEET.....Early Crosby
CORN, SWEET.....Evergreen
CUCUMBER.....Nichol's Green
PARSNIP.....Double Curled
PEAS.....Hollow Crown
PEAS.....Long Island Mam.
PEAS.....Amer. Wonder
PEPPER.....Ruby King
PUMPKIN.....Cheese
LETTUCE.....Stimpson
LETTUCE.....Musk Melon
MUSK MELON.....Chicago Market
MUSK MELON.....Rocky Ford
ONION.....Pulse Silverstreak
ONION.....Globe Danvers
RADISH.....Scarlet Globe
RADISH.....White Strasbourg
RUTA BAGA.....Purple Top
SPINACH.....New Summer
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Perhaps every father has something to say to his son about his conduct with ladies. I appreciate the advantages connected with the association of right minded young men and young women. I believe that a young man is greatly improved by associating with young ladies. At the seminary which I attended in my youthful days, the girls all occupied seats on one side of the table, and the boys on the other side. Our seats were permanent, thus each term I sat opposite the same girl. I will never forget the lady who sat opposite me. She had fair complexion, pink cheeks, blue eyes and light curly hair. I do not remember seeing her ever except at the table, and if I had met her upon the street I do not know that I should have felt free to raise my hat, since I had never been formally introduced to her; but at the table I was supposed to see that everything was placed within her reach, and to show her the usual courtesy. Her manner though pleasant, was not inclined to promote intimacy. The boys at this school were undoubtedly better behaved and more mannerly at the table than though there were none but boys present, and this covers the point I am aiming at, which is, that the presence of ladies tends to promote good manners among men. Men and boys among themselves are apt to be rough, boisterous and forgetful, but place these same men among cultured ladies and their manners change at once. While I favor the association of boys and girls, I can see that the student should not give too much attention to social affairs of any kind. Therefore I advise you to limit the time you spend in calling on or in escorting the ladies. I do not favor early marriages, particularly at the present day, when the young man is expected by foolish people to start on as extravagant a scale of living, or more so, than his father enjoyed at the close of a successful career. Therefore I advise you not to pay particular attention to any one lady, but to treat them all alike so far as possible.

As a young man I was particularly susceptible to the charms of my lady friends, and continually considered myself in love with some particular one. I can recall now a dozen or two such instances of youthful affection, which never amounted to anything further than pleasant association. It is easy to find a girl who is sociable and attractive, one you may enjoy spending some time with, but when it comes to getting married you will find it a difficult undertaking. Not that there is a scarcity of marriageable young women, but you will find a scarcity of those who are suitable to become your life-long companion, and at the same time meet the demands of your fancy, or in other words those who enchain your heart with a lasting affection. While I greatly admired and esteemed my lady friends, and thought each new acquaintance might possibly develop into a matrimonial alliance, I was 30 years old before I met the lady who now presides over my household. I was earnestly searching ten years for a wife.

I desire to caution you particularly about encouraging any young woman to think that you particularly fancy her, or give her any reason to suppose that your attentions to her are more than those of an ordinary friend. I have recently gained some information on the subject of marriage, and find that there are far more women looking for husbands than there are men looking for wives. Women have not the opportunity for getting married that men have. Women are ordinarily far more susceptible than men. While you may have a dozen ladies upon your calling list, many of these ladies may have only one regular caller, and that person yourself. I know of no instance of greater sadness than that of a young girl who forms a lasting attachment for a man who cares no more for her than for others of his acquaintance. I do not doubt that many young men cause much sorrow in the world by thoughtlessly paying marked attention to girls that they have very little idea of marrying. At the same time I am

aware that in many cases young men are earnestly seeking for wives, and are hopeful in each instance that the acquaintance may develop into a permanent alliance, but it does not thus develop, and the man retires leaving the lady disconsolate.

A BROKEN HEART.

I recall an instance which illustrates my thought. A young man earnestly searching for a wife, made the acquaintance of a young lady, highly educated, accomplished in every way, a delightful companion, and a daughter of a distinguished family. He became interested in this lady at once, and she appeared to be interested in him. He continued the acquaintance for a year or more, sincerely hoping and expecting that the acquaintance would develop into a matrimonial alliance, but it did not so develop on his part. He simply admired the young lady, and valued her as a friend, but with no lasting attachment for her sufficient to warrant him in proposing marriage. The fact that this lady was highly educated and accomplished, possibly kept other young men at a distance. Certainly the fact remains that she did not receive much attention from other men. Finally this family were about to move to a distant part of the country, and one day the father and mother made some excuse for calling at the home of this young man, and after spending some little time at the place departed. The young man did not think much of this call at the time, but later circumstances suggested the thought that possibly their object in calling was to give this young man an opportunity to express his sentiments in regard to the young lady. A year or two later this young lady died. It is possible that the marked attention of this young man misled the lady, and had something to do with the brevity of her life.

It cannot be doubted that many instances similar to this occur and are often disastrous to the welfare of the girl.

I hope you look forward with confidence to the day when you will have a home of your own and a wife to preside over that home. I consider home life the most sacred thing on earth and the most enjoyable. I believe in churches. It is my belief that churches do much to uplift us and to help form character, but I believe that home does even more than the church if properly regulated and made the most of. No man should be contented to be a bachelor. The greatest ambition of every man should be to establish a permanent home and to make that home for him and his the most attractive spot on earth. I believe in the fixing of one's habitation permanently in one spot. I have no sympathy with people whose tastes demand their moving continually about the country, now living in one city and then in another, now on the Atlantic coast and then on the Pacific. People lose much of the enjoyment of life in their emigration. One should not only make his home lot an attraction, but should make the surrounding country for miles around his own in a certain sense, becoming familiar with the people, the hills, brooks, rivers, ponds and lakes.

If I should die to-night
My friends would call to mind with loving thought
Some kindly deed the icy hands had wrought;
Some gentle word the frozen lips had said.
Errands on which the willing feet had sped:
The memory of my selfishness and pride,
My hasty words, would all be put aside,
And so I should be loved and mourned to-night.

O, friends, I pray to-night,
Keep not your kisses for my dead, cold brow;
The way is lonely—let me feel them now.
Think gently of me; I am travel-worn:
My faltering feet are pierced with many a thorn;
Forgive, O hearts estranged, forgive, I plead!
When dreamless rest is mine I shall not need
The tenderness for which I long to-night.
Belle Eugene Smith.

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Love is a day
With no thought of morrow.
Love is a joy
With no thought of sorrow.

Love is to give
With no thought of receiving.
Love is to trust—
Without quite believing.

—Charles Henry Webb.

The New Peach Culture.

There was a time in the country when all it was necessary to do to secure peaches was to plant trees. Nature did the rest. The ground was fertile and full of humus, and cultivation was hardly deemed necessary. This condition of things existed about forty years ago, and I have eaten delicious peaches grown by that natural method in Western New York. Later came the period when peach growing here was given up entirely, it being generally understood that peaches were too uncertain to be profitable. Then again about twenty years ago it came to be understood that peaches could be grown successfully on certain elevated sites near Rochester, N. Y. Certain adventuresome men made large profits from peach orchards and this led to large planting on every hand, and now we find that with improved hardy varieties the peach crop is a profitable one in this locality.

But there is a new era in peach culture with new methods. It is no longer possible to grow marketable peaches successfully by simply planting the trees and giving them no further attention. The new ideas may be condensed into the following:

First—The new idea peach when planted is headed back by cutting off the young tree within two feet of the ground, leaving simply a stub of the tree two feet high. This pruning is so radical, no one but an experienced peach grower will consent to adopt it, and yet it is the proper thing to do. When the tree is one year old the entire top is cut back one-half in the spring before growth commences. Every year after this one-half of the annual growth is cut off, and the interior of the head is improved by cutting away superfluous branches. When peach trees are cut back and pruned like this, they do not form wide spreading tall trees, requiring no ladder to gather the fruit. The trees become somewhat dwarfed in size, with short stout branches that will carry heavy loads of fruit without breaking, and the fruit can be gathered from a step-ladder, or largely from the ground.

Second—The highest possible cultivation is given to the peach orchard. Successful peach growers have offered prizes to any person who would find a weed in a large orchard, so thorough is the cultivation. No plowing or other cultivation is done that interferes at all with the roots on peach trees; no plowing should ever be done deeper than two or three inches. Many peach orchardists do not plow at all, but simply keep the surface loose by continuous cultivation with the disc harrow, acme, or spring tooth harrow, or some other similar tool, the object being to preserve every particle of moisture that is in the soil. Cultivation should be begun very early in the season, as that is the time when the trees make the greatest growth.

Third—The location must be selected with the greatest care. Never plant peach trees in a valley. It is far better to plant them on the top of a high hill, but the slope of a side hill is better than either the hill top or the valley. What is needed is ventilation, or the free circulation of air, in case of danger from frosts and this is brought about by valleys running along the hill sides.

Fourth—The selection of varieties is one of the most important considerations of late years. The last few years has witnessed the introduction of varieties that are far more hardy in bud than those varieties grown previously. Among these hardy varieties are Fitzgerald, Crosby, Elberta, Hall's Chili and Champion.

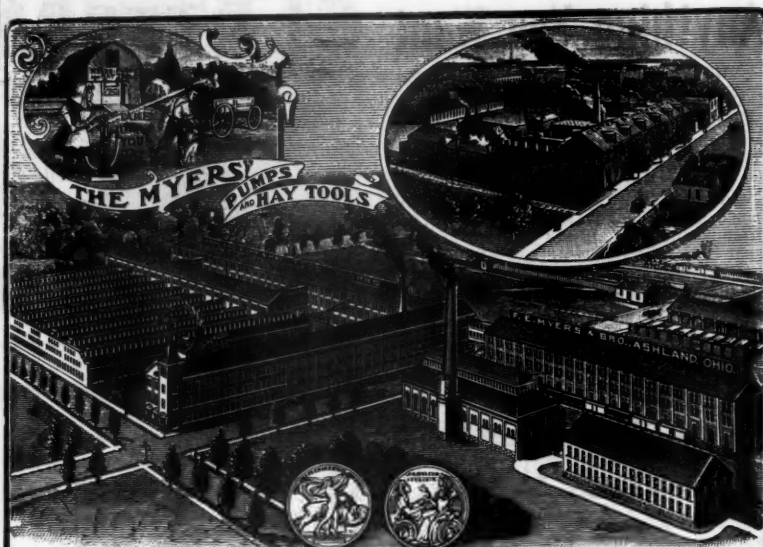
Fifth—In the new peach culture much attention is paid to thinning the fruit, as well as to advanced methods of marketing. It requires a man of courage to properly thin the fruit of his peach orchard. In many instances more than one-half of the fruit is removed and often three-quarters, in order that the remainder may develop into the largest size and greatest beauty. In Michigan, land that has been used for farm crops many years has been found to be better adapted to peach growing than new land. After the orchard has borne two or three crops, the land should be enriched. Mr. Morrill, of Michigan, applies annually 100 bushels of wood ashes to the acre and about 400 pounds of bone. Those who have the courage to practice the new peach culture find peaches a very profitable crop, and they are never at a loss to find a market for their fruit.

Terms of Leasing Farms.

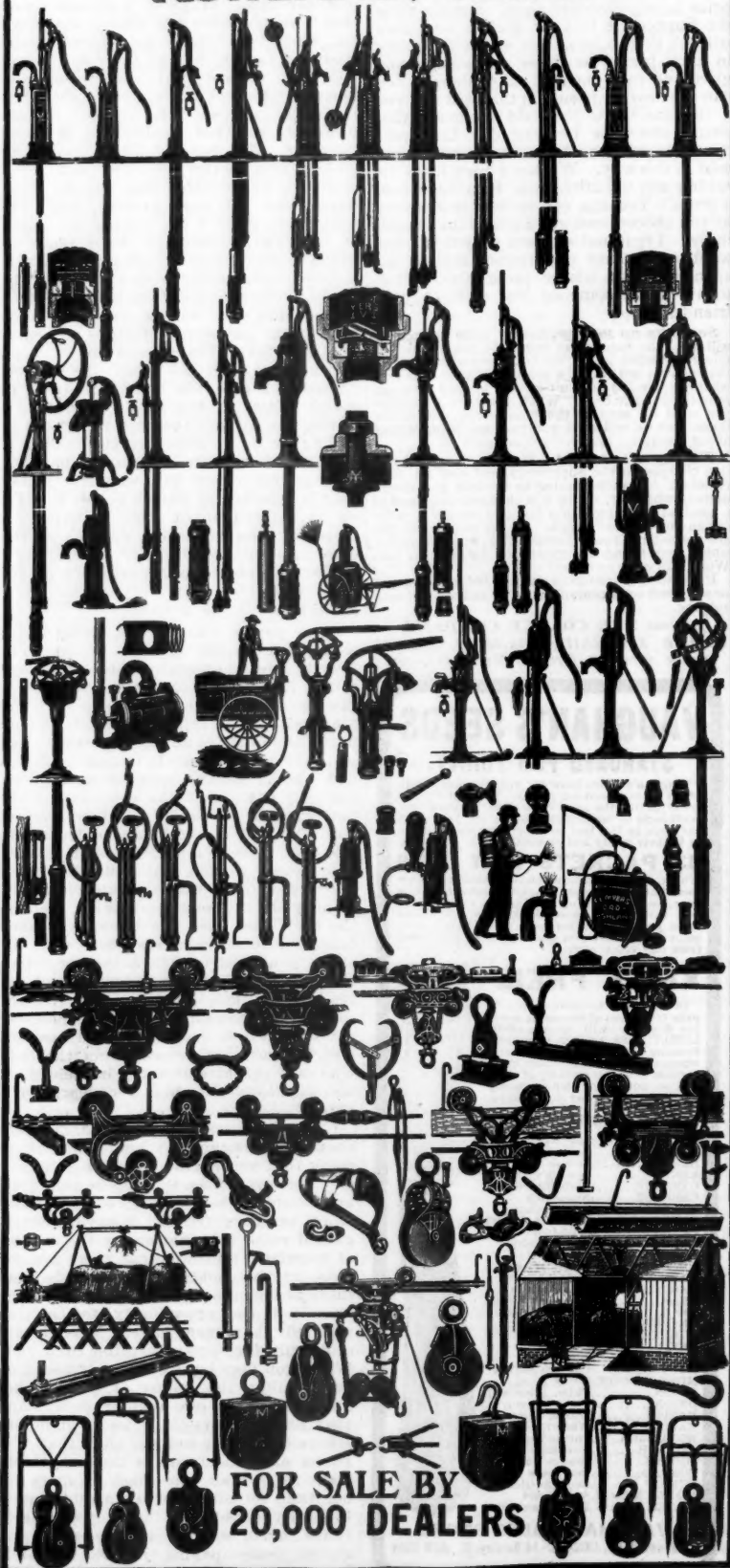
In reply to a subscriber I will say, that the terms of leasing vary in different sections of the country. Where land is favorably located, near churches and schools or large towns or cities, and the land is fertile, the owner of such land gets more favorable terms than where farms are less favorably located, or where they are less fertile. There are many conditions which might vary the terms of lease. If there is a large and productive orchard on the land, the owner would naturally expect to get a larger portion of the produce or larger cash rent than if no such orchard existed. If the farm has been leased for a number of years to men who have taken no interest in keeping up the fertility, the owner could not expect to make such favorable terms for himself or tenant as though the farm had been better kept.

In this locality, where the owner furnishes everything, including house and other buildings, seed, tools, horses, and other live stock, he receives 2-3 of the products. Some times the tenant markets these products, but other times it is divided at the farm and marketed at the owner's expense. If it is a dairy farm that is leased, the conditions may be changed, depending upon the distance for hauling to market, or how the milk and butter is disposed of, etc. More often the owner furnishes the land, 1-2 the seed, pays the taxes, and half the thrashing bills, the tenant to work out the road tax. In this case the owner and the tenant divide equally the proceeds or produce. The many conditions and stipulations should be inserted into the contract, which should always be in writing. If commercial fertilizers are purchased it is fair that the owner should pay 1-2. It should be stated whether straw and hay or manure may be removed from the farm, and how much land should be devoted to hay, grain, or other crops, otherwise the tenant might desire to plow every acre and sow to grain. Specify in regard to fuel, whether the tenant may cut timber, or use that which is blown down by the wind. Specify what shall be done in case the tenant neglects to give proper attention to the farm and farm crops.

Mr. E. H. Day, a subscriber to Green's Fruit Grower, asks for information in regard to culture of strawberries, blackberries, raspberries and their diseases, remedies, etc., and would be pleased to know which are the best varieties. The question of varieties of all fruits is a vital one, but a difficult one to answer where the answer is expected to apply to a wide extent of territory. For this state Glen Mary, Corsican, Brandywine, Van Deman, Jessie, Senator Dunlap and Clyde are valuable varieties; with us in fact, the most valuable we have found. In black raspberries Kansas, Conrath, Gregg and Nemaha are valuable varieties. In blackberries Minnewaska, Rathbun, Taylor, Snyder and Eldorado are of great value and probably the best in cultivation. In red raspberry Cuthbert and Loudon are the most popular varieties, but Marlboro is a very fine variety in some localities. There are many other valuable varieties of strawberries, raspberries, blackberries. The best soil for these fruits is a sandy loam, that does not harden after heavy storms; but we have succeeded famously in growing them upon our clayey loam. Soil with some clay in it is more fertile than sandy soil. Sandy soil is desirable on account of its being easily cultivated without any tendency to harden. Plant small fruits and all fruits on uplands in preference to lawlands. He asks for a sure cure for San Jose scale. On Long Island, N. Y., they are afflicted with the scale and have become familiar with it. An experienced fruit grower there tells us that they have no trouble in keeping the scale in check, so that it does no injury, by spraying or washing the trees with a solution of whale oil soap—two pounds of soap to one gallon of water, or with crude petroleum. Whale oil soap is the safest thing to use; crude petroleum varies in strength and other respects and should only be used under the advice of a specialist. He also asks about anthracnose. I have seen this disease attacking red and black raspberries; it is a hard disease to fight. We are told by experiment stations, that the remedy is to spray the plantation thoroughly in June and July with Bordeaux mixture. We would advise digging up and destroying a plantation thoroughly affected with anthracnose. This subscriber asks why we have not given more attention to small fruit culture in our paper. We supposed we had covered the ground many times, but when our subscribers desire information let them send on their inquiries and we will attempt to answer them.



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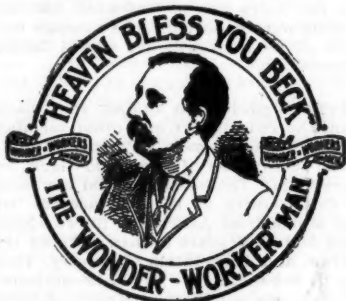
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A WIDE-OPEN LETTER

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Mr. Geo. S. Beck, Proprietor of "Wonder Workers," the Greatest and Best Remedy for All Kinds of Weakness that the World Has Ever Known, Throws Another Bomb into the Camp of the Sharks Who Prey Upon the Fears of Weak Men, and Offers Their Victims the Benefit of His Great Remedy at Cost.

My Dear Brothers—More than 250,000 permanent cures during the past three years prove that my "Wonder-Workers" are a God-send to men everywhere. There is not a case of Weakness or Nervous Troubles of any kind anywhere on earth (no matter whether caused by overwork, or whether the man be old or young) that "Wonder-Workers" will fail to cure quicker and at less expense than any other remedy made anywhere in the world if simply used (at home, at your work), one tablet at a dose three times a day. They cured me in less than one month's time, at the age of forty-four years, when I, like you, lacked that vitality without which a person is a man only in name, and after I had been nearly ruined by the frauds and fakirs who disgrace the medicine business. I ask you to bear in mind that I am the only man in the world in the business who has solemnly sworn that the medicine he sells cured himself, and that the names of all who buy it will be held sacred forever.



I am the same George S. Beck, living at 420 South Market street, Springfield, Ohio, who is hated by every Electric Belt impostor, Free Prescription schemer, C. O. D. fraud, Free Prescription fakir, and Doctor by Mail humbug in America because of the manner in which I have exposed their infamous schemes. Their only object in making "Free" offers is to get the names of men who are weak so that they may harass them with their impudent letters and lying, filthy circulars; and I, here and now, again challenge any and all of these frauds and poison distributors to thoroughly sift and test my charges of low villainy and palpable fraud in any court of law or justice they may select. If you have had any dealings with them you know that all my charges against them are true as Gospel.

I beg to assure you on my honor as a man that no matter whether you are married or single, old, young or middle-aged; or no matter whether your weakness is caused by overwork, too frequent indulgence in strong drink or tobacco, the use of my "Wonder-Workers" will search every nerve center of your body, renew every tissue, develop every organ, strengthen every muscle, invigorate every function, and bring to you a perfect and permanent restoration of strength and manly vigor. The reason why "Wonder-Workers" do this is because they are a Pure Nerve Food and Tonic, and because they do not contain any phosphorus or any other of the poisons that make the vile nostrums sent out by the frauds and quacks so dangerous to human life. It is perfectly safe to use them at any time or under any circumstances, and their use will not fail to restore natural strength and vigor without any trace of excitement or stimulation in old or young.

Because of the wonderful merit of my "Wonder-Workers," and the fact that I treat every man as fairly in every respect as though he was my own natural brother, I have built up the largest mail-order medicine business in the world in less than three years. I defy any man to whom I sent "Wonder-Workers" to say that I have treated him unfairly in any manner, shape or form. If you order "Wonder-Workers" mention this paper, the publisher of which is hereby authorized to publish me as a fraud and scoundrel if I fail to do exactly as I agree with any of its readers.

The price of "Wonder-Workers" is only One Dollar per box, always cash with order; by express at your expense. It will cost 25 cents to lift them from express office. If you send \$1.15 I send them by mail prepaid, thus saving you ten cents. If you have any doubt about me write to any Commercial Agency, Mr. A. R. Coughlin, Cashier of the First National Bank of this city, (the bank of which Hon. Asa S. Bushnell, ex-governor of Ohio, is president) or to any of your friends in Springfield.

GEO. S. BECK, 420 S. Market Street, SPRINGFIELD, OHIO.



The night has a thousand eyes
And the day but one;
Yet the light of the bright world dies
With the dying sun.

The mind has a thousand eyes
And the heart but one;
Yet the light of a whole life dies
When its day is done.

"Eighty years have passed, and more,
Since under the brave old tree
Our fathers gathered in arms and swore
They would follow the sign their banner bore.
And fight till the land was free."
—Holmes' "Under the Washington Elm."

Lord Avebury declares that ants that maintain their sobriety make a great distinction in their treatment of the intoxicated stranger and the fellow citizen who has succumbed to his blandishments. He inebriated fifty ants, twenty-five from one nest and twenty-five from another, and put them all into the nest from which one lot had been taken. The inhabitants at once took the helpless strangers and threw them into the water; while those who were citizens of the nest were carried tenderly away into remote corners to recover from their festivity at leisure.

Horses are the most abused of animals; not only because they happen to be the most used and the most useful, but also, and perhaps even more, because Nature, for some mysterious reason, has denied them the power of audibly expressing pain, such as is possessed by the cat or the dog, says Michigan Farmer. Under extraordinary circumstances, says The Road, they have indeed been known to overcome the impediment. The extremity of terror, as when they have been attacked by savage beasts or the sudden shock of agonizing pain, as when they have been horribly wounded on the battlefield, has sometimes extorted from them a piercing, dolorous, almost human scream, which nobody who has heard it can easily forget. Most horses which die in pain expire in silence, or utter merely a moan or whine.

The galled jade may wince, but utters no cry. The cart horses of our busy cities make no audible complaint under the lash of the whip, the strain of an overload or the stupid jerkings of the reins by ignorant drivers. It cannot be that they lack the will, but they have been denied the power. A few exceptional instances no more affect the general truth of this rule than the case of Baalam's ass provides a proof that all asses (of the four-legged variety, be it understood) possess the power of speech. Practically their dumbness is absolute.

About 1790 Colonel Loammi Baldwin, of Woburn, Mass., while surveying a route for the Middlesex canal, came to a native apple tree on the Butters' farm, in Wilmington, Mass., the fruit of which he believed in. After grafting it into his orchard he was free to give the fruit and scions to his many acquaintances. Baldwin's name for his favorite apple was "Pecker," after the marks on the bark of the tree made by the woodpecker. The apple became so generally appreciated in Baldwin's day that at a business meeting of the society, when he was present, a vote was taken that with his consent the apple should be renamed the "Baldwin."

Dr. Bessey presented a paper on "How Trees Came to Nebraska." By the influence of the wind many seeds are moved; other seeds are carried on the water, says E. F. Stephens. The original apples were not made for man. The flesh of the apple was a bait that should tempt to have the apple eaten and thus be carried to new points for growth. The pawpaw, with its edible fruit, is distributed by small animals, and the seed of the hackberry by the birds. The seeds of the ash and the elm drift with the wind. The junberry and the wild cherry are distributed by the birds. The red bud is carried by small animals. The maple with its winged seeds are carried by the wind. Of sixty-five species of trees mentioned, eleven are distributed by birds, five by birds and small animals, twenty-three by squirrels and small animals, twenty-six by the wind. Among the few trees which can be started in the dry prairie sod, the doctor mentioned the bull pine, which succeeds in grassy land without cultivation. More varieties of trees are found in

Southeastern Nebraska, indicating that they came into the state from that direction. Dr. Bessey read letters from close observers elsewhere showing the movement of trees and plants is steadily going forward.

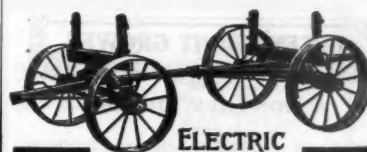
A European trade journal not long since published a description of a new process of seasoning wood by electricity. That the method is successful is proved by the fact that the company's shares are now at a premium of 600 per cent. The electrical treatment is said to dispel the sap, its place being taken by insoluble matter which will not decay. It also increases the tenacity of the wood and its resistance to vertical pressure.

There is a large number of professional "bee hunters" in the west and southwest of Texas. Small caves and dark recesses formed by shelving rock abound along the waterways of the Texan rivers. They are the natural hives of the wild bees, and take the place of the hollow tree trunks of the forest regions of the northern country. These caves are used year after year by the bees, and in many instances they have been found to be literally filled with honey.

Notwithstanding the popular belief in "equinoctial storms," scientific investigations fail to show that the passage of the sun across "the line," that is, the equator, which constitutes the vernal equinox when the sun is coming north and the autumnal equinox when it is going south, is accompanied by any distinctive atmospheric disturbance. A recent study of the periodicity of cyclonic winds in England, covering the years from 1874 to 1890 inclusive, shows, however, an apparent relation to the equinoxes. The greatest frequency and force of the winds occur about two weeks before the vernal, or spring, equinox and three weeks after the autumn equinox.

Among the birds that are living a higher life, it is the female bird who carries the hod during building time. The husband sits about on twigs and tells her how to do it. A woodpecker should be a very pariah among decent birds. The moment a woodpecker's mate gets through nesting, he tells her "to take her clothes and go"—then he establishes himself in the house she has built—and she goes and builds another for winter. She is fool enough to take another woodpecker to boss the job, if she can find one willing, but as a general thing all the male woodpeckers at that time are as comfortably provided for as her legitimate spouse, so she has to work without getting kicked for it.

Both cattle and hogs should have at all times full access to salt.



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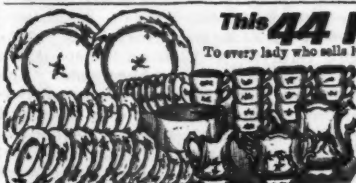
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GREEN'S FRUIT GROWER

A MONTHLY JOURNAL.

CHARLES A. GREEN, Editor and Publisher.
Prof. H. E. VAN DEMAN, Associate Editor.

J. CLINTON PEET, Business Manager.

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ROCHESTER, N. Y., MARCH, 1902.



X This cross appearing on the paper sent you is intended to call your attention to the fact that this is the time when nearly all of the subscriptions to Green's Fruit Grower expire, and that we desire you to renew your subscription at once. We have kept our promise, which was to improve our paper as the number of subscribers increased. We have incurred considerable expense and rely upon you to sustain us in our efforts by sending in your subscription without delay. Please find in this issue an order blank, which please fill out and send to us with registered letter or postal money order. We have subscribers which have been entered for 3, 4, or 5 years in advance and there are a few others which do not expire with this issue. None of these friends need be alarmed on reading this notice, since they are correctly entered on our books.

Now is the time to make preparations for spraying fruit trees, vines, plants, etc. during the coming season. Orchardists usually spray their trees once before the leaf buds open in the spring. Those who defer buying their spray outfits until the moment they want to use them are always behind time. "An ounce of prevention is worth a pound of cure," in spray operations. Remember that if you send your order in during the busy season you cannot expect to get it filled immediately every time, therefore you are liable to meet with delays. The same advice will apply to your purchase of berry boxes and shipping crates, grape and peach baskets, etc. Order a reasonable supply at once and keep a fair supply on hand all the time. If you have a surplus it will be no loss.

Do not forget when you plant your orchard this spring to locate it upon a rolling piece of ground somewhat elevated. In this section of Western New York I should prefer a hill side or hill top, planting on the windward side a row of evergreens or poplars to shield the orchard from the wind. I intend repeating my former advice which is, that all kinds of fruits be planted on upland naturally drained in preference to lowland, and yet it is possible that in some localities lowlands may be even preferable. The danger of lowlands is from late spring frosts and more liable to severe freezing in severe winter.

Do not fail to prepare thoroughly the soil where you intend to plant to any kind of fruit trees, plants or vines. Any time spent before planting in carefully plowing and thoroughly pulverizing the soil is profitably spent. You never have so good an opportunity to cultivate the entire surface as you will before the planting is done. There are people who would prepare the ground carefully for sowing wheat or planting corn who would not deem it so necessary in planting trees, etc., but I assure you that it is equally necessary to have the ground as carefully prepared.

Green's Fruit Grower is often asked about the advisability of planting sod ground, recently plowed, to fruit trees, etc. I should prefer that the sod be plowed a year previous to planting, but if this has not been possible you may yet prepare the sod ground by deep plowing and the most thorough cultivation for planting this spring. But remember that the sod ground must receive double the cultivation in order to prepare it for planting, than the land would require were it not for the sod, and it must be expected that there will be some roots of

grass which will appear as the summer advances. If you plant upon newly plowed sod ground be very careful and not place any of the old sod next to the roots of the trees, and take more pains than ordinarily in packing the soil firmly about the roots. This firming of the soil about the roots is one of the most important features of planting.

The selection of varieties is one of the most important features of orchard planting or planting for home use. This is a question which no person living a long distance from your place can advise. Better ask your neighboring fruit growers. For family supply I should advise planting ten or twelve varieties, but for a commercial orchard I should not care to have over four to six varieties. In buying trees or plants do not be governed entirely by the price asked, since quality is very important in this matter. Buy of some one of whom you are satisfied you will get trees true to name.

Do not plant an orchard of any kind without first determining in your own mind that you will give this orchard careful and thorough attention in the way of pruning, spraying, and cultivation.

Most people after planting an orchard plant among the trees a crop of beans, potatoes, corn, or some other similar crop; such cultivated crops do not injure the orchard so seriously as crops of oats, wheat or other grain, which should never be sown in a young orchard, but any orchard will succeed better if no crop is planted among the trees, the entire land being given to the orchard from the start. Remember that the largest growth in orchards, berry fields, or vineyards is the strongest growth. Since May and June are the months when trees are growing most rapidly, see to it that cultivation is begun early that this early growth may be as vigorous as possible. Early summer is the time to push the growth of all fruit growing plants, vines or trees. During late fall it should be the policy of orchardists to restrain the growth in order that the wood may be well ripened and prepared for the cold blasts of winter which would be liable to injure the trees were they growing rapidly at the close of the season.

Green's Fruit Grower is often asked what fertilizers to apply, and how much per acre. This question should only be answered after we had full knowledge of the soil, and this we could only learn of by several years' experience in cultivating. Our rich wheat and corn growing soil in Monroe county, N. Y., will grow good apples and other fruits without the application of any fertilizer, if it has not been exhausted by previous crops, but even here orchards, etc., will do much better by applying a dressing of stable manure, or from 300 to 500 pounds of phosphate per acre. But there are other localities where the soil is lighter and more sandy where you could not expect to grow profitable crops of fruit without above fertilizing. If the soil is greatly impoverished it may need 1,000 pounds of phosphate per acre or a carload of manure per acre. Never place fertilizers of any kind in contact with the roots of trees, plants or vines.

He is a wise planter who, after his trees are planted applies a forkful of strawy manure on top of the ground, over the roots of the trees recently planted. This mulch of manure will do more to keep the ground moist about the tree than would a pallful of water applied daily, at the same time the manure enriches the soil and adds further to the growth of the tree. Be careful not to bank up against the trunk of the tree with manure, since I have known the bark of trees to be killed in this manner. Begin to train your trees or vines from the beginning, nipping back each month's shoots that are growing too rapidly and rubbing off shoots that appear where they are not wanted.

There are many implements for cultivating orchards, vineyards, berry fields, etc., which were unknown ten or twenty years ago. It will pay you to purchase the best implements on the market for this purpose. The Acme harrow, manufactured by Duane H. Nash, of Wilmington, N. J., is an excellent implement for levelling the soil and destroying the young weeds just starting in the orchard. The adjustable disc harrow, manufactured by the Johnston Harvesting company, Batavia, N. Y., is an indispensable tool for working in orchard trees; the Planet and Iron Age one-horse cultivators are also indispensable to the fruit grower. A manure spreader is needed, also a wagon that will turn in very short limited spaces is also indispensable when you go to gather the fruit. We have

used a Gang plow and iron framed harrow with good effect.

Readers of Green's Fruit Grower often write for information in regard to cold storage houses for keeping apples, pears, grapes and other fruits. Since the question of cold storage houses has now become one of which none but an expert can speak with authority, we have not encouraged our readers to build moderate sized or small cold storage houses, not knowing exactly what method to recommend, since we know but little about any method except the ammonia process practiced in large cities, which is very expensive. Madison Cooper of Minneapolis, Minn., is an expert in the construction and management of cold storage houses, cooled with ice and salt, and we take pleasure in referring our correspondents and readers who are interested in this subject to this gentleman, who has devoted many years to the subject. If our readers will write him, I am confident that you will receive prompt and satisfactory replies on this important subject.

People who work outdoors, as do farmers and fruit growers, can digest food that their wives and daughters, whose time is mostly spent in the house, cannot digest. Even he who works outdoors might enjoy better health if he would select a more judicious diet. Why should not doughnuts and rich pies be banished from the table? Cookies are better than doughnuts, and puddings are better than pies. Hot bread should be avoided. Bread twelve hours old is much more easily digested than new bread. Pork upon the table once or twice a week, or beans once or twice a week is enough for that class of food. Many people are made bilious and dyspeptic at Christmas time, not because they have eaten turkey, but because they have filled themselves with the rich greasy dressing of the turkey, and the rich gravy, in addition to numerous other enticing dishes. A certain amount of acids with our food are healthful, such as pickles of various kinds, but it is easy to overdo in eating this class of food. Sugar is nourishing and strengthening if eaten wisely and discreetly, but it is very easy to over eat sweets, and this leads to biliousness and indigestion. The study of the house wife should be to avoid those dishes which cloy and clog the system, and turn to those more helpful and equally enticing foods that are far more nourishing, and which are much more easily digested. Of late years there are numerous cereal foods which can be purchased already cooked, that can be easily and quickly prepared for breakfast. I use in my family cracked wheat, oat meal, or rolled oats, and various kinds of preparation. The last and best is malto-vitos, which is made of various kinds of malted grain, ground, cooked and pressed into flakes. The family with a package of this food in the house simply needs milk and cream to add to it to make a satisfactory meal. Shredded wheat biscuits are a wholesome dish for breakfast.

An outrageous compliment.—A well-known Rochester man, wealthy and talented, had at a public meeting the night previous taken a part of which his friend approved. The appreciative friend, meeting the public spirited gentleman surrounded by a number of companions, made this remark: "You are a bright man Jones! I want to tell you, you have something in your head besides lice."

Almost every day I get inquiries asking what varieties of apple, peach, pear, plum, cherry, also what varieties of red and black raspberries, black berries, strawberries, currants, etc., do you advise to plant on my farm in Vermont, or my farm in Texas, or Dakota, or Oregon. Now allow me to ask how is it possible for me living at Rochester, N. Y., and having no experience in growing fruits in Vermont, Texas, Dakota or Oregon, to advise you just what to plant. Please remember that varieties suited for New York State may not be the best for Vermont, Texas, Dakota or Oregon, and that varieties in the northern part of any state may not be desirable for the southern portion of the same state, or often those varieties which succeed in one place may not succeed so well in another locality fifty miles distant. Therefore, when our readers ask us these questions we feel humiliated, and somewhat burdened with the sense of obligation resting upon us which we cannot fulfill. How often I have asked my readers to inform themselves in regard to varieties for their peculiar localities by visiting fruit growers in their own vicinity and getting advice from them.

I am a lover of horses and am enthusiastic over their many noble charac-

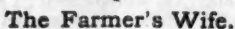
teristics. Yesterday I saw a big black team drawing up a long steep hill about three tons of coal. The driver was perched upon the top of the wagon and I stopped in my walk to see if he would rest the team; but he did not do so on his way up the hill, nor after he had reached the top. I looked with admiration upon the steady draught of this team, each foot being planted firmly upon the slippery pavement, every tendon strained to its utmost. Surely the horse is a wonderful animal. Think for a moment of the useful work accomplished by the horse, and of the condition of man were he not blest with the horse. And yet originally the horse was not much larger than the sheep. The horse like the cow, hen, swine and other animals has been greatly improved in size and strength as the centuries have rolled by.

Wheat and rye. The average yield of wheat for 1901 was 14.8 bushels. In 1900 the yield was 12.3, for 1899 12.3 bushels, 32,000,000 acres were sown to wheat for the coming season, a small increase over the year 1900. 1,250,000 were sown to rye last fall which is about the average acreage according to the government reports. Potatoes are not grown in this country in sufficient amounts to supply the demand. The average production is about 211,000,000 while the average consumption is about 212,000,000 bushels. Potatoes have been more largely imported from Scotland and Ireland this season than for many years owing to high prices. The largest production of potatoes in the past ten years in this country was in 1895 when over 297,000,000 bushels were grown. The largest importation of potatoes from Europe in the last ten years was in 1893 when 3,000,000 bushels were imported. The average imports of potatoes will not exceed 700,000 bushels.

Are you prejudiced against the black man, the red man or any other member of the human family? Prejudice indicates narrowness of mind and lack of knowledge. The black man did not come to this country of his own accord. He was stolen from Africa and for two hundred and fifty years he has suffered the torture and degradation of slavery. They are no worse than we would be subjected to the same conditions. Many of these black people have distinguished themselves in the professions. They make excellent physicians, and have often risked their lives in attending yellow fever patients in Memphis and elsewhere. They are noted for their eloquence, thus many are prominent clergymen and lawyers. The Methodist church, of which I am a member, has for several years been at work organizing schools in the South for educating colored people, with most excellent results. There are now forty-five of these schools, many of them having two or three hundred students each. Some of the poor black people walk in from the mountains a hundred miles, barefooted and in rags, to attend these schools. Is it not an honor to belong to an organization which is doing many kinds of work similar to this among the freed men of the South?

Man can live on food that costs him but 3 cents per day and enjoy good health. I once knew of a man who was troubled with indigestion. He was finally advised to adopt a diet of boiled wheat exclusively. He bought a bushel of wheat, placed a few quarts in a kettle of water and boiled it over the stove for several days. After this long boiling the wheat turned into earthen vessels formed a jelly like mass. This invalid's food consisted of this boiled wheat taken at morning, noon and night eaten with a little milk and nothing else. The actual cost per day was only 3 cents. On this diet the invalid grew strong and fat, his indigestion troubled him no longer.

Coon hunting has ever been a favorite pastime with farmer's boys. When I was a boy on the farm I engaged in many coon hunts, and can tell many stories about coons. The Farmer tells about a boy who discovered evidences of coons in a tall tree. He prepared to climb the tree with tree-climbers attached to his feet. When asked how he was going to get the coons out, he smiled blandly but made no reply. With great apparent ease he ascended the tree to the hole, then drew from his pocket a bunch of fire-crackers and after lighting a match he set them on fire and dropped them down into the hollow of the tree. In a short time they began to explode, and out came the coons one at a time, coughing and sneezing, while Fred knocked them off, and they were despatched by the men and boys on the ground. Thirteen coons, little and big, were thus captured in a few minutes.



The work of the farmer has been greatly changed during the past twenty years by improved machinery. By means of these improvements the farmer can conduct his operations with far less expenditure of labor, but how is it with the farmer's wife? Has she been assisted in like manner or has her work been lightened by improved machinery or inventions? I know something about the work of a farmer's wife, having been born and brought up on a farm. My opinion has always been that if there was one person upon the farm more seriously overworked than another it was the farmer's wife. While the farmer's work closes at a reasonable hour in the afternoon, the farmer's wife is kept busy until 8, 9 or 10 o'clock daily, and often she was the first one up in the morning. What are the inventions I will ask that have been made to help the farmer's wife in the kitchen work, or in her house work of all kinds? I cannot think of any improvement. She makes her bread, pies, cookies and often her soft soap in the old-fashioned laborious way. The potatoes are mashed or baked, the meat fried, broiled, baked or boiled just as they were one hundred years ago. The work of the wash-day is pretty much as it used to be on the farm. In cities there is a fountain of water flowing in every room in the house, and stationary stone wash tubs with a faucet in each for hot and cold water, with pipes for drawing off water at the base of each stationary tub, which greatly lessens the work on wash day; but such devices are not known in the country, or are hardly possible there. The farmer's kitchen and pantry should have every possible convenience for the housewife, so that she may take as few steps as possible. Wood or coal should be placed convenient to her hand. No woman should be compelled to go down cellar and carry up heavy hods of coal, or armful of wood, and yet I know many women who not only have to do this but cut their own wood as well. No woman should be obliged to lift pails of water or boilers or tubs of water on wash day. The man who allows his wife to do such lifting is helping to shorten her life and helping to dig her grave.

For over sixty years Mrs. Winslow's Soothing Syrup has been used by mothers for their children while teething. Are you disturbed at night and broken of your rest by a sick child suffering and crying with pain of Cutting Teeth? If so send at once and get a bottle of "Mrs. Winslow's Soothing Syrup" for children's teething. Its value is incalculable. It will relieve the poor little sufferer immediately. Depend upon it, mothers, there is no mistake about it. It cures diarrhoea, regulates the Stomach and Bowels, cures Wind Colic, softens the tongue, reduces Inflammation, and gives tone and energy to the whole system. "Mrs. Winslow's Soothing Syrup" for children teething is pleasant to the taste, and is the prescription of one of the oldest and best female physicians and nurses in the United States, and is for sale by all druggists throughout the world. Price, twenty cents a bottle. Be sure and ask for "Mrs. Winslow's Soothing Syrup." 1540
1901.

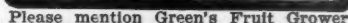
CLOTHS

This woman "lost three of her children in infancy." The marvel is that she did not lose the eight. I am sure any farmer owning choice stock would



Handkerchief

Give choice of Cambric Patterns of Point Lace Handkerchief, wide or narrow Battenburg Lace Tie Ends or Honiton Lace Turn Over Collars, etc. etc. to the day sailing and for 15c. will send the patterns. We also send our large circular designs in Laces, Stamped Linens, etc., together with price of materials used. Also prices of Perforated Patterns, and Commenced and Finished Pieces. Also Frocos on Colored and White Grounds. Also Frocos on all stitches illustrated and explained. Write to-day. Address LADIES' ART CO., Dept. 103, St. Louis, Mo.



also mention Green's Fruit &

Co., Dept. 103, St. Louis, Mo.

EDITORIAL

CONTINUED.

Interview with a Pear Grower.

The editor of Green's Fruit Grower had a brief talk recently with David K. Bell, one of the most successful pear growers of Western New York.

"What average annual profit does your pear orchard yield?"

"My pear orchards are of various ages, since I am increasing the acreage each year, therefore it is difficult for me to answer your question concisely, but I will say that I have eight acres of pears mostly standard in full bearing which yield me an annual income of \$200 per acre."

"Do your pear orchards bear annually?"

"Yes, there is not the least trouble in getting crops of pears every year if you cultivate the land properly, keeping it fertile, and trim the trees each season judiciously."

"I have noticed your method of pruning which is about perfect. I see that you cut back the new growth of each season one-half or more every spring, cutting out superfluous shoots or branches, but what would you think of heading trees back when planted so that they will throw out branches close to the ground?"

"The tendency now among fruit growers is to keep the top of fruit trees lower down so that the fruit may be more easily handled and trees more easily sprayed, but I would not favor having the trees branch close to the ground, since it would interfere with cultivation."

"But the ground would need no cultivation where trees branched low and shade was dense, since weeds could not grow in such a place?"

"Very true, but it would be difficult to get around or between these low branched trees without injury to the branches or knocking off the fruit."

"Are you able to give your pear orchards all the cultivation you desire? I notice your orchards appear to be under high cultivation."

"No, I am not able to cultivate my orchards as thoroughly as I would like. In this locality the soil should be stirred thoroughly, with a disc harrow or cultivator, soon after every rain, and frequently during dry spells, and this would necessitate keeping a large number of teams which I could not afford. In California it is entirely different, since they have but little rain there a little cultivation goes a long ways. Weeds do not grow there as they do here and soil does not become hardened by heavy storms."

"What are your favorite varieties of pears for market?"

"My favorites at present are Bartlett, Clairgeau and Bosc, yet I do not confine myself entirely to those varieties. I have in my orchard Kieffer, Duchess, Bartlett Seckel, Worden Seckel and many other varieties."

"You took prizes at the Paris exposition I understand?"

"Yes, I was informed by Colonel Brackett, who had charge of the American exhibit at Paris, that I was entitled to a silver medal, which medal has not yet arrived. Possibly it will be like the gold medal awarded me at the Pan-American for my sheep. I have been advised that this gold medal cost \$175 and that I will have to pay for it if I get it."

"Now a word about a Columbia pear which is sent out by an Ohio firm as a new variety. So far as I am able to judge the pear thus named Columbia is the Bar Seckel which originated with Jacob Moore. There is an old pear called the Columbia, a winter variety which is described in Barry's Fruit Garden. By the way a fruit grower told me the other day that there was a new pear which I should plant since it was valuable, and the name of it was the Bosc. I told him that the Bosc was not a new pear, but he declared that it was, and yet Downing traces it back nearly one hundred years. The fact is, the Bosc pear, though one of the most valuable varieties on earth is very little known to many fruit growers, therefore they may be somewhat excusable in deeming it a new variety, since it is new to them. It is a pear of large size, beautiful in shape and color, of superior quality, a good keeper, long stem that holds it firmly to the tree. The only weak thing about the Bosc pear is, that it is a crooked grower in the nursery, therefore is not popular with nurserymen. It generally has to be top grafted at extra expense. Bosc pear sells at higher prices than any other."

Trees Along Line Fences.

On the ten-acre lot near the city of Rochester, which I bought not long ago, I have planted several hundred fruit trees close to the line fence on all sides and at the farther end. It is surprising how many trees can be placed on the border of a field like this; it is also surprising how such planting of fruit trees on the border beautifies the field. But the question is, how about the legal right as regards trees planted so closely to land occupied by others? Surely the roots of these trees as planted will encroach upon our neighbor's land, and the branches will hang over the adjoining land and shade it. The question is, what remedy has my neighbor, or what objection can he make? It has long been settled by law, that the owner of land has a right to plant trees upon it as close to the line fence as he chooses, and no one can prevent him from such planting. If the roots extend into the neighboring lot owned by another man, the other man may cut off those roots. If the branches extend over the land owned by another person, that person has a legal right to cut off the branches that thus encroach upon his territory, but it has been well established in the courts that no person has a right to pick the fruit from these trees which I have planted on the border of my lot but myself, even though the fruit hangs over my neighbor's land. But here another interesting question arises; the man who owns the land adjoining, over which the branches of my trees extend, may prohibit me from treading on his soil in gathering the fruit. If I can gather it by climbing into the trees and reaching out over the ends of the branches without touching his ground, the owner of the land over which the branches of fruit hang can raise no legal objection. But there are few instances where adjoining owners of land object to the planting of fruit trees close upon the border of their land. Fruit trees are attractive objects, and are desired by nearly every one.

At a recent Ohio State Horticultural meeting, as reported by Ohio Farmer, M. O. Hadden, of Kelly's Island, where San Jose scale is prevalent, gave his experience in fighting the scale. Mr. Hadden is a large peach grower, and has previously used the whale oil soap treatment. He used the whale oil soap for four years on his large peach orchards with great care and diligence, but was not successful in checking the scale. The past year he used crude petroleum oil and water applied with a spray motor pump, mixing 26 per cent. of oil with 74 per cent. per water, the pump mixing the oil and water at the point of escape, as thoroughly as cream is mixed with milk. In one season with crude oil treatment, he has checked and diminished the scale so that he no longer fears it.

Professor J. E. Green, of the state experiment station, gave his experience. He could not recommend whale oil soap, and stated that orchardists were abandoning it; but he was convinced that crude petroleum oil was an up-to-date remedy when diluted with water as has been stated. He said that apple trees would endure more oil than peach trees.

Use a fine nozzle, begin at the top, spray downward, touch all points, and stop before the oil drips or runs down the limbs and body. If there is wind, spray from one side and let spray drift thoroughly through the trees, and as soon as the wind changes spray from the other side. (This applies in all kinds of spraying.—Eds.) As the oil can be used at any time during the winter this two-sided spraying with it is entirely practicable, though it is not so with the soap since that must be applied only just as the buds begin to swell. Do not expect to kill every scale, but to hold them so in check that they will do little if any harm. Apple trees will endure more oil than peach trees, but it is not necessary or wise ever to let the oil run down the limbs and bodies of the trees. The hired man may need to be cautioned every 15 minutes—but, said Professor Green, I have lots of faith in the man who holds the nozzle on his own trees.

Green's Fruit Grower advises you not to spray with oil until just before buds start to grow in the spring. Then cut back the tops of infested trees closely before spraying. It will be easy work to spray when tops are removed. This serious heading back will not injure the trees. As there are many kinds of small scale insects similar to San Jose scale, do nothing until an expert gives his decision. The Palmer scale closely resembles San Jose scale. Only an expert can distinguish the difference.

It's a lucky thing for the average man that he doesn't know some of the things that other people know about him.

OUR PREMIUM LIST

FOR SUBSCRIPTIONS FOR 1902.

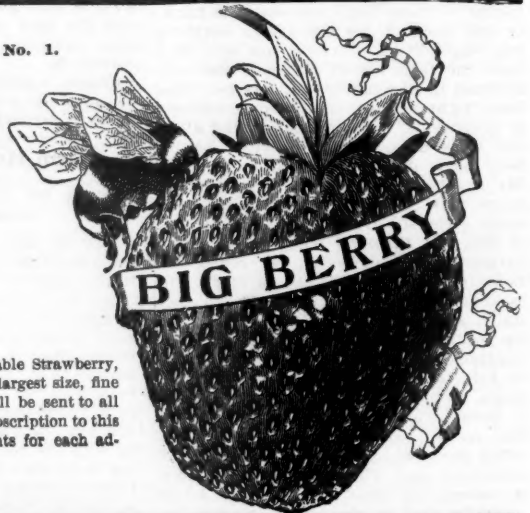
Now is the time subscriptions expire and people are subscribing. Please read the following offers, which we trust will be of interest. We have decided to make few offers, and to make these exceedingly desirable. All will be sent by mail, postpaid. Note also in another column our clubbing offers with other papers.

NOTICE: When you send in your subscriptions you must in the same letter claim your premiums. If you fail to do this, it will be useless for you to make your claim later, since it is impossible for us to look over 80,000 subscribers to adjust such a small matter.—ORDER BY NUMBER ONLY.—Figure all subscriptions at 50 cents each, and then get premium for your commission.

PREMIUM No. 1.

Corsican GREEN'S BIG BERRY.

Six strong plants of this valuable Strawberry, perfect blossoming variety, of largest size, fine color, firm, and productive, will be sent to all who send us 50 cents for one subscription to this paper one year. Add six plants for each additional subscription sent us.



PREMIUM No. 2.—Roses.

We offer three hardy two-year-old outdoor rosebushes, which will blossom same year planted, and will be of the choicest varieties. These bushes will be sent to all who send us 50 cents for one subscription to this paper one year. We will select an assortment of colors from the following hardy hybrid perpetual varieties: General Jacqueminot, Prince Camille De Rohan, Coquette Des Blancs, Coquette Des Alps, Paul Neyron, Mrs. John Laing, John Keynes, La Reine, La France. The selection must be left entirely with us.



PREMIUM No. 3. Tree and Grape Vine Pruner.

We offer the Levin Pruning Shears, being well tested by Chas. A. Green, best of all pruners, to all who send us \$1.25 for one subscription for Green's Fruit Grower for two years, or two subscriptions for one year. Note that everything in the way of premiums offered on this page is sent by mail, post-paid by us.



PREMIUM No. 4.—4 Red Cross Currant Plants.

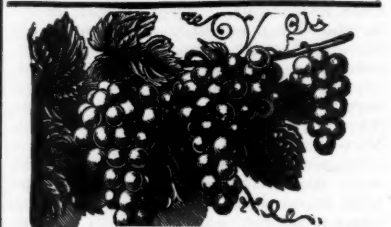
Four well-rooted plants of the new Red Cross Currant, the largest and most productive red currant, very vigorous in growth, clusters long, will be sent to all who send us 50 cents for one subscription to our paper for one year. Add four plants for each additional subscription sent at 50 cents each.

PREMIUM No. 7.

A Scientific Microscope—This microscope is specially imported from France. As regards power and convenient handling; good judges pronounce it the best ever introduced for popular use. The cylindrical case is manufactured from highly polished nickel, while there are two separate lenses—one at each end of the microscope. The larger glass is a convex magnifier, adapted for examining insects of various kinds, the surface of the skin, the hair, fur or any small articles. The other lens is exceedingly powerful and will clearly delineate every small object entirely invisible to the naked eye. Every farmer, family, school, and teacher should own a microscope. Send us 50c for microscope and subscription to Green's Fruit Grower 1 year.

PREMIUM No. 5.—Rubber Stamp.

With your name and address. This is a valuable premium. It is a nickel-plated machine which you can carry in pocket, with self-inking rubber type, which stamps your name and address on envelopes, letter-heads, etc., so that your letters cannot go astray. Send to all who send us \$1.00 for one subscription for two years or two subscriptions for one year.



PREMIUM No. 6.—Two Campbell's Earl Grape Vines.

Earliest and best of black grapes. A wonderful producer of fine fruit, which sells for highest price. Vine vigorous, fruit black, large bunches, and fine flavor. We have well-rooted vines of Campbell's Earl, and will mail two vines for each subscription sent us. Add two vines for each additional subscription sent at 50 cents each.

GREEN'S BOOKS.

We offer your choice of Green's Books or Treatise, paper covers, if you will send us 50 cents for one subscription to Green's Fruit Grower. These books are as follows: Premium No. 8—American Fruit Growing.—The newest book, handsomely illustrated, devoted to Peach Culture, Pear, Quince, Currant and Small Fruit Culture, etc. See advertisement in another column.

Premium No. 9—Green's Six Books—On Fruit Culture, devoted to Apple, Pear, Plum, Cherry, Raspberry, Blackberry, Strawberry, Currant, Gooseberry and Persimmon Culture. See advertisement in another column.

Premium No. 10—American Poultry Keeping—A new book by Chas. A. Green, prepared with great care covering all the principal points of Poultry Keeping. See advertisements on other pages of all these books.

NOTE THIS OFFER—Four Monthly Journals for about the price of one—Green's Fruit Grower will be sent monthly for one year, together with a year's subscription to Farm Journal, Vick's Family Magazine, and American Poultry Advocate, all for 60 cents.

NOTE ALSO THIS OFFER—We will send you Green's Fruit Grower four years for \$1 without premium, or we will accept \$1 for a club of three new subscribers one year.

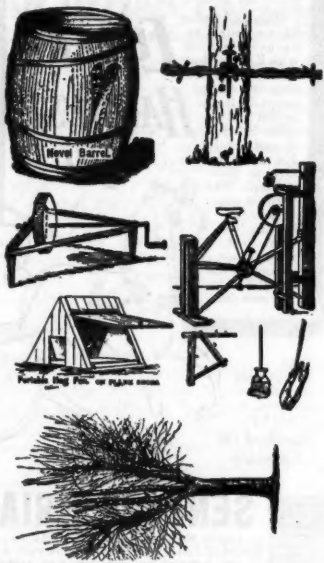
Also we offer Green's Fruit Grower three years for \$1, Frank Leslie's Popular Monthly fourteen months for \$1.40, for 25 years one of the leading literary magazines; Leslie's Beautiful Art Calendar for 1902 (regular price), 50 cents, floral design in three parts printed in twelve colors, total value, \$2.90. All the above furnished for only \$1.50.

Also we offer Green's Fruit Grower one year and Woman's Home Companion (Springfield, Ohio), one year both for \$1. Or you may substitute Frank Leslie's Monthly Magazine and their Art Calendar in place of Woman's Home Companion, which rivals the famous Ladies' Home Journal.

Will You Get Up a Club For Us? If you do we will pay you liberally for your work. Now is the time! Send for offer for getting up a Club.

GREEN'S FRUIT GROWER, ROCHESTER, N.Y.

EDITORIAL CONTINUED.



The above illustration represents suggestions for handling tools, etc., about the barn, re-engraved for Green's Fruit Grower from our valuable exchanges. Number 1 represents a novel fruit barrel with a slit in one stave which enables the buyer to examine the fruit by raising up one hoop slightly thus releasing one stave. This method also permits ventilating the barrel of fruit when desired, and is taken from Scientific American.

Number 2 shows a method of fastening a barbed wire fence temporarily to a tree or post. Notice that there are two staples driven into the tree, then the barbed wire is placed between the staples and a nail is placed under the staple and over the barbed wire. This cut is from American Agriculturist.

Number 3 is from New York Tribune and shows how to mount a grindstone with a long shank so that in grinding a scythe the crank may not be in the way or in danger of striking the scythe. Number 4 is from the American Blacksmith and shows how the frame and gearing of an old bicycle may be attached to a grindstone and propelled rapidly. A man should be seated on the bicycle seat with his feet on the pedals. It will be seen that he can propel the stone and grind at the same time. Notice the watering device over the stone. Number 5 is a portable hog-pen, placed upon runners like a sled, from the American Agriculturist. Number 6 is from Farm and Home and represents a handy jack for raising wheels of heavy wagons for oiling, etc.

Number 7 and 8 are from Farm Journal. Cut 7 represents a handy barn broom, made of two old brooms that have been cast aside. Cut 8 represents a barn shovel made out of a box.

Number 9 is from U. S. Year Book of Agriculture and was intended to show the ill effects in cutting back a soft maple tree. The editor of Green's Fruit Grower uses the illustration to suggest how peach trees planted four, five, or six years have their lives renewed by having their branches cut off. We have practiced this method of cutting back peach trees and have found it a good one. This gives a round and well balanced head that will bear heavy loads of peaches without bending over or breaking and seems to renew the life of the peach tree.

This cut shows how fruit trees of all kinds may be cut back, just before the close of winter, when attacked by San Jose scale. After cutting back the trunk the stubs of the branches can be painted

or sprayed with crude petroleum oil, destroying every insect upon them. New branches will form and the trees will soon become as fruitful as ever. Fruit trees will not usually send forth one-tenth as many branches as are shown in this illustration, but if too many, some of them may be cut out.

Be merciful. Do not fail to see that all the animals on your farm are carefully housed and fed. Cultivate a kind and sympathetic heart. If you allow any creature, even a stray cat or dog, to suffer upon your place, you harden your heart, and in time may become a hard-hearted man. But if you consider the wants, needs and comforts of all the creatures within your reach you will daily become more tender hearted and more sympathetic. There are many hard-hearted men and women in this cruel world. In a certain sense they have made themselves hard-hearted. If they had each day given kind attention to some helpless creature it would have educated them and made them more sympathetic. As it is we have need of humane associations to prevent cruelty, not only to children, but to horses, cows, sheep, dogs, cats, pigs, and other creatures. But you will say no one is so brutal as to be cruel to their own children? Yes, even to their own children. They began by being cruel to the cat, dog, cow, horse, and to birds, then they began to be cruel to their own children. You see this grows upon a person, and the end may be that they will destroy somebody's life, for which they will be hung and imprisoned. We get out of this life more or less what we put into it. In other words, if we go through life aiming to do good and to relieve suffering, our reward comes to us in additional happiness and in additional comfort. We will enjoy our own society if we have the feeling that we are doing pretty nearly right. How can a man enjoy a warm home and a warm bed on a cold winter's night, if he knows that the snow is drifting into his stables, his hen-house, or the home of his hired man? Every year upon the great plains of the west thousands of cattle and sheep perish during winter from starvation. I have before me the photograph of a starving cow, standing in the deep snow during a blizzard, the wolves watching hungrily about for the last struggle of this suffering beast. Why such inhumanity?

We naturally think of the earth as being cold, probably from the fact that water coming out from the earth in springs during the warmest weather is cool, but the fact is that the earth is warm even during the coldest weather of mid-winter. I pointed this morning to a grass plot in front of my house that was barren of snow, while everywhere around this spot snow lay at considerable depth, and asked my people if they could explain the cause. They could not, whereupon I told them that there was a deep well under this spot, and the warmth of the soil caused the snow overhead to melt. I have often noticed on railroad tracks that the snow would not melt where it fell upon the wooden ties but that all the snow melted that fell upon the earth between the ties in moderately cold weather. This indicated that the soil between the ties was much warmer than the ties. I have also noticed in riding about the city that the openings into the street sewers never freeze, but that the snow about these openings was thawing in the coldest days of winter. Here is another example of the warmth of the earth. There is heat far down in the earth caused by internal fires, and this heat becomes so intense in some deep mines as to render it impossible for the workmen to proceed further, but it is my opinion that this internal heat is not the heat I have spoken of as manifesting itself near the surface. I conclude that the warmth of the soil near the surface is the warmth absorbed by the sun during summer. I have known snow banks to cover frozen soil at considerable depth, and then have discovered a few weeks later that the frost had entirely disappeared from the earth below this bank of snow, caused by the warmth of the earth. I have sown timothy grass seed on frozen soil at the approach of winter. Later this frozen soil was covered with snow banks six to eight feet deep. When spring came, and snow banks disappeared, I found that the grass had germinated beneath the snow by the warmth of the earth.

Advertisement.—I have a few barrels only of apples for sale at \$5.00 per barrel. The varieties are Northern Spy, Greening and Baldwin. While these apples are carefully assorted, they are not quite as large and fine as apples are in this locality in more productive seasons. Charles A. Green, Rochester, N. Y.

Thirty Years Experience With Strawberries.

William Lewis, the veteran strawberry grower, living near Rochester, N. Y., is one of the largest and most experienced fruit growers. Mr. Lewis recently called at the office of Green's Fruit Grower and during our conversation he gave us the following information: There have been great changes in fruit growing since I began thirty years ago to grow strawberries and other small fruits for the Rochester market. In early days people did not eat fruit so freely as they do now, and but few grew strawberries or other small fruits. I have seen the time when three small loads of strawberries would glut the Rochester market. If at that time any one had prophesied that the time would come when five or ten car loads of strawberries could be marketed in one day in this city he would have been considered a lunatic. We have some times complained in recent years of the low price of strawberries, but I have seen the time many years ago, when an entire load of ten crates of strawberries were sold for \$1.00. Rochester is surrounded on all sides by fertile farms which produce fruits in abundance, and prices in Rochester markets are apt to be lower than the average prices in other parts of the country, but now as a rule fruit growers here receive fair and profitable prices.

My soil is sandy. I have never used commercial fertilizers. I have applied to my land only barnyard manure. This is used freely, and when it can be secured in sufficient quantities I prefer it to commercial fertilizers. For several years past I have shipped my strawberries to eastern markets. I sort my berries, making a full crate of fine large fruit. After carefully packing this fruit, I put it on the car at night, and the next morning it arrives in Philadelphia, where I find a ready sale. Last season my berries sold in Philadelphia netting me 8 cents per quart throughout the season, free of express charges or commissions.

The Corsican strawberry is a favorite with me, and I find it the best shipper I have. The Corsican arrives in Philadelphia in fine condition, and yet such very large berries as the Corsican are generally considered poor shippers. The four best strawberries for the locality about Rochester, N. Y., in my opinion, are Corsican, Clyde, Glen Mary, Brandywine. Several years ago, before I began to grow Corsican, I drove 15 miles to see a plantation of Corsican strawberries. I was so pleased with this variety I determined to buy a few crates and see how they would ship to Philadelphia. I paid the price the grower was getting at Rochester, N. Y., drew the berries in my wagon 15 miles to my home, then shipped them to Philadelphia. They arrived in good condition and I netted 2 cents per quart more than I paid for fruit after paying express and commission.

FAT FOLKS
HALL CHEMICAL CO., Dept. 104 St. Louis, Mo.



Spraying Apparatus

He who attempts to grow fruits now-a-days without a spraying outfit, goes into the work handicapped. Blight and bugs, rot and rust, mold and mildew—all conspire to damage the crop, and in all cases succeed to a greater or less extent if the horticulturist does not spray. The very best goods in this line are made by the Field Force Pump Company, of Lockport, N. Y. The illustration herewith shows the...

EMPIRE KING PUMP.

made by the Field Force Pump Co. of Lockport, N. Y. and is one of the very latest improved outfits for this work of spraying. This is the only pump having a mechanical automatic agitator with a brush for keeping internal strainer clean. This company also manufactures the Garfield Knapsack and Orchard Mower, and can furnish the New Process Lure, which requires no slacking or straining. If the reader will write to the Company, addressing them at 28 Market Street and mention this paper he will be furnished free a valuable book of instructions.

ASTONISHING RESULTS

From Hot Air and Vapor Baths.

Benefit everybody. Better than water. Now inexpensive. Opens the millions of sweat pores all over the body and draws out the poisonous salts, acids and impurities, which if retained cause disease and weakness. Cures a hard cold in one night; breaks up and eradicates lagrippe, pneumonia, fevers and congestion; saves lives and Dr. bills. Recommended by physicians. Proven cure for Rheumatism, Bad Colds, Fevers, Lagrippe, Pneumonia, Pains, Liver, Kidney, Skin and Blood Diseases. Purifies the blood, beautifies complexion, makes clear skin, strong nerves, refreshing sleep; invaluable for children and ailments peculiar to women. These Special Prices good for 60 Days are less than half others would ask you. Don't wait and miss them. Write for Booklet and Testimonials anyway, whether you intend to buy or not as it will prove valuable.

THE FAMOUS \$5. SQUARE QUAKER VAPOR BATH CABINET



Style 1903. Half a million sold at \$5.00. REDUCED TO \$3.50. Genuine \$5.00 Quaker Cabinet only \$3.50. Complete with best heater, medicine and vaporizing pan, and Prof. Gering's 100-page \$2.00 Health and Beauty Book, giving directions how to take Turkish, Russian, Hot Air, Steam and Vapor Baths at home for 3c each, also how to treat diseases. This Cabinet latest design, best quality materials, rubber lined, steel frame, roomy, folds flat, is entered by a door. Most convenient. Sent on 30-days' trial. Guaranteed. Better than others ask \$7.50 for.

\$10. Walled QUAKER CABINET (STYLE 1904) WRITE FOR CATALOGUE.

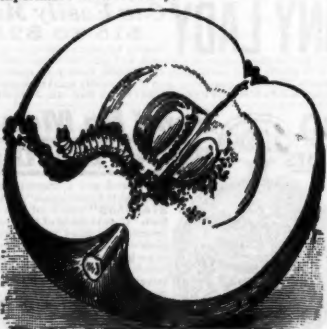
Reduced to \$6.10. Same as \$5.50. Cabinet described above except has double walls. Lined inside and out with rubber cloth; black ebony finish. No equal better than others ask \$12.50 for. Sent complete ready for use with best heater, medicine and vaporizing pan, also Prof. Gering's 100-page health book to Health and Beauty. \$1.00 Face & Head 65c. Steaming Attachment Reduced to 65c. Good for beautifying the skin and complexion, curing Catarrh, Asthma, Bronchitis and Throat Troubles.

SEND NO MONEY. Simply your name and full address and let us send you our complete Catalogue and special offers FREE or, better still, select the Cabinet you wish, send \$1.00 and we will send it C. O. D. subject to examination. Examine it at your express office and if just as described, perfectly satisfactory, and the cheapest good Cabinet you ever saw, pay express agent the balance and express charges. If you remit us full price goods will be quickly shipped, guaranteed as described, or your money refunded, or you save return express charges. Better order today. Don't wait, and then complain when prices advance. Write for booklet anyway.

WHO WE ARE. Almost everybody knows of us. We've been in business 11 years. Capital \$100,000.00. Oldest and largest makers of Bath Cabinets in the world. References: Publishers of this paper, Dun's Com'l Agency, or Fifth National Bank. WANTED: AGENTS, SALESMEN, MANAGERS. \$1500 to \$5000 yearly—New Plan—no experience necessary. Let us start you. Wonderful seller. Plenty good territory. Write quick for offer. Address, WORLD MFG. CO. 350 World Building, Cincinnati, O.

SPRAYING FRUIT TREES.

The question of spraying fruit trees to prevent the depredations of insect pests and fungus diseases is no longer an experiment but a necessity.



Our readers will do well to write to Wm. Stahl, Quincy, Ill., and get his catalogue describing twenty-one styles of Spraying Outfits, and full treatise on spraying the different fruit and vegetable crops, which contain much valuable information, and may be had for asking.

To Greenhouses. We have for sale over one thousand different varieties. Among these are some really great varieties that combine such beauty of form and coloring of flower, freedom of bloom, hardiness and health, as to make them the equal of any and coloring of many with famous names. We want you to know these Roses as we do, and to know why for over thirty years the D. & C. Roses have been famous the world over. To introduce them we are making a special offer of Our Great Trial Collection. We pay the postage.

16 D. & C. Roses \$1.00

No matter where you live we guarantee satisfaction and safe arrival. These Roses will bloom profusely this year and continue throughout the season. Hardy with protection. All different kinds, no two colors alike, properly labeled. Strong, well rooted plants (not slips) on their own roots. FREE with every order for the above the great new Rose Yellow Mammoth. The 32d Annual Edition of Our New Guide to Rose Culture, 114 pages, the leading Rose catalogue in America, describing our famous Roses and all other flowers growing, free with every order for the above. Also free on request. Ask for it.

Established 1850. THE DINGEE & CONARD CO., West Grove, Pa.

Bright's Disease and Diabetes Cured.

Harvard University Acting as Judges.

Irvine K. Mott, M. D., of Cincinnati, O., demonstrated before the editorial board of the Evening Post, one of the leading daily papers of Cincinnati, the power of his remedy to cure the worst forms of kidney diseases. Later a public test was instituted under the auspices of the Post, and five Cases of Bright's Disease and Diabetes were selected by them and placed under Dr. Mott's care. In three months' time all were pronounced cured. Harvard University having been chosen by the board to make examination of the cases before and after the treatment.

Any one desiring to read the details of this public test can obtain copies of the papers by writing to Dr. Mott for them.

This public demonstration gave Dr. Mott an international reputation that has brought him into correspondence with people all over the world and several noted European are numbered among those who have taken his treatment and been cured.

The Doctor will correspond with those who are suffering with Bright's Disease, Diabetes or any kidney trouble, either in the first, intermediate or last stages, and will be pleased to give his expert opinion free to those who will send him a description of their symptoms. An essay which the Doctor has prepared about kidney troubles and describing his new method of treatment will also be mailed by him. Correspondence for this purpose should be addressed to IRVINE K. MOTT, M. D., 51 Mitchell Building, Cincinnati, O.



World's Fair Award.
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Rugs That All Can Afford.

Written for Green's Fruit Grower by Clara Hammond.

This article is not intended for those fortunate women who have only to choose their rugs from the expensive assortment shown by the large carpet houses in our cities, but for those whose ingenuity must take the place of well filled purses, while they endeavor to make their rooms look cheerful and cozy as possible with the least expense.

My memory goes back lovingly to the bed room in a country house, where the bedding was fragrant with lavender, the curtains at the windows spotlessly clean and white, and the furniture carefully polished and kept free from dust. On the floor were braided rugs made of father's old coats and John's worn out pants, what was left of them. One which had been in use ever since I could remember, was made of listing obtained from the village tailor. Medium thick woolen cloth makes the smoothest braids, but heavier cloth and sometimes cotton goods may be used. After the braiding was done they were sewed on the under side, making the rug round or oval in shape. The stands may be of color or a combination of colors such as red and yellow, or blue and white.

A very pretty rug is made by cutting burlap in strips six inches wide. Ravel on either side to the depth of two inches, leaving a strip two inches wide in the middle. Double them in the middle and sew them around a piece of bed ticking cut the desired size and used for a foundation. Let each row overlap the one before it two inches. As the work may all be done on the machine, these rugs are quickly made. A beautiful rug seen recently was made of burlap which had been dyed several shades of green with diamond dye for cotton, the darkest shade being around the edge, shading to light green in the center. One made with a border of red burlap with the center in its usual color is pretty also.

Oilcloth mats may be made of old Brussels carpets. Cut it the size and shape you wish and tack it down to the attic floor, or any other floor not in general use. Paint in on the wrong side with good brown paint. Let it dry thoroughly, then add a coat of varnish. Let this dry a week or longer and it can be washed like oil cloth. When the paint begins to wear off, renew it and it will last four or five times as long as common oil cloth.

One of the handsomest floors I have ever seen was painted chocolate brown, with a large rug or druggot placed in the center. This rug was made of scraps of cloth of all colors, cut bias and gathered through the middle, using very coarse thread and lapping the ends of the strips instead of sewing them together. They should be kept just loose enough to twist up like a chenille cord. Of course it took a great many of the strings, but one was always kept in the work basket, and after a garment was made and the larger pieces put together, those that are too small to be used in any other way were gathered on instead of throwing them in the fire. After the strings were finished, they were tied together, rolled into balls and sent to a weaver, who furnished the chain and wove it like a rag carpet. Three widths were sewed together for the druggot.

Small rugs are made in the same way. The center may be made hit or miss with a plain border of contrasting colors. This does not resemble rag carpet in the least for the chain sinks into the cloth leaving a smooth, soft surface like Smyrna rugs. Fine knit goods, the tops of stockings, flannels or other woolen goods worn too much for other use work nicely in this way. If the material is faded as it is likely to be, it may be dyed any color desired with diamond dyes and beautiful rugs may be made of it. So if you cannot afford the new carpet you wanted, the floor may be made presentable at the expense only of patience and good taste.

Clara Hammond.

The importation of potatoes from Europe has been unusually large this year, and the New York Sun says that about four-fifths of those which reach New York for consumption for the past few weeks have been of foreign growth. They come from Scotland, Ireland and Belgium. It chronicles the arrival within a short time of one cargo of 90,000 bushels, another of 60,000 barrels, and a third expected a day or two later with 30,000 bushels. Not for eight years past have many been brought from Europe, but this year the crop was light here, and unusually good in those countries.

For the land's sake use Bowker's Fertilizers. They enrich the earth.

For the Sewing Room.

Written for Green's Fruit Grower.

The economical woman will save all linings and trimmings, as they help out wonderfully sometimes when making a new garment, and if more consideration were given to the saving of little things quite a considerable sum of money might be saved annually. A bottle of benzine is of inestimable value in the sewing room, as it will help to clean and freshen gloves, felt hats, jackets and woolen garments of all kinds. A white or light colored felt hat can be cleaned by soaking over night in the benzine, and kid gloves should be washed and rinsed in the benzine as if using water.

In the first place, mend any ripped places, using fine cotton; and a glove mender should be found on every toilet table. Benzine is good for removing any kind of grease spots from woolen goods and does not change the color, but if a jacket or garment is much soiled it is better to clean it by rubbing all over with a cloth moistened with the benzine. Velvets and velvet ribbons that have become creased can be brightened and freshened by holding over a pan of boiling water and having some one to brush up the nap with a stiff brush. There is nothing better for cleansing woolen fabrics than warm soap suds made with soft water and good white soap, but each piece should be thoroughly brushed and cleaned before it is put in the suds for washing. After washing black goods rinse in very blue water, and black alpaca is washed as serge or other black goods, only to the last rinsing water add a little gum arabic. Many of the delicate colored flannel and cashmere waists become soiled or faded while they are too good to discard, and it is commendable economy to re-use an article so long as it can be made serviceable. If they cannot be washed satisfactorily in cold soap suds they can be colored any darker shade by dipping in diamond dye for wool and this is also a good way to renovate a rusty black woolen dress skirt, as it can be recolored a jet black, but the goods must be very carefully pressed or it will not have the fresh new appearance so much desired. If there is any difficulty in getting the seams in the sleeves properly pressed, pin a cloth over the broom handle and slip in the sleeve and the seams can be pressed smooth with very little trouble. -Alina.

"Do you know what they call hash at our boarding house?" "No; what?" "The substance of things hoped for, the evidence of things not seen."—Washington "Times."

"I see you are reading the dictionary. Do you find it interesting?" "No; more amusing than interesting. It spells words so different from the way I spell them."—Judge.

Willie: "Pa, this paper says: 'Beef makes brawn, and fish makes brains.' Why do fish make brains?" Pa: "Probably because they travel in schools; now away and play."—Philadelphia Press.

"Now, Johnny," said the Sunday school teacher, "you may tell us what a prophet is." "Why," replied Johnny "it's a fellow that's always lookin' for a chance to say 'I told you so.'"—Philadelphia Press.

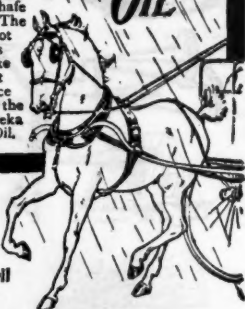
Stylish Lady Visitor (to small boy, while waiting for hostess to come down): "What is the matter with Fido, that you are watching him so closely?" Small Boy: "Mamma said that your hat was enough to make a dog laugh, and I wanted to see him do it."—Tit-Bits.

Caller: "And are your papa and mamma going to take you to Europe with them when they go?" Tommy: "Yes'm." Caller: "And aren't you afraid?" Tommy: "No'm. I ain't afraid of nothin'. I've been vaccinated."—Catholic Standard and Times.

"This," said the proud young wife as she passed the plate to her trusting husband, "is White Mountain cake." The deluded man made several attempts to bite it. "What do you think of it, dear?" she asked. "Well," he said with a feeble smile, "it is very realistic."—Judge.

Oscar D. Cole writes Green's Fruit Grower as follows: I feed my poultry cooked horse meat. I dress the animal as clean as possible, cut it up and boil until tender, then cut it in slices and run it through a large sausage cutter; then I boil potatoes in the water where I cooked the meat, mash the potatoes, and mix wheat bran middlings and corn meal all together, and feed warm in the morning. I am careful not to feed a diseased horse, but rather one that is killed on account of old age or through an accident. The bones may be cut up with a bone cutter and fed in the usual manner.

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VAN DEMAN PAPERS

PRINCIPLES OF TRANSPLANTING.

One of our correspondents has lately raised a question about the theory of shortening roots and tops at transplanting. We do a great many things the true philosophy of which we could not give and this may be one of them. No doubt we all have ideas on the subject and perhaps correct ones in many respects. It may be that something more of importance in our work can be brought out by a discussion of this subject. I make no pretensions to a complete understanding of it, but I think we all should have reasons for what we do and be able to give them.

Now a theory is worth nothing that is not borne out by facts. Indeed, a true theory is generally a deduction drawn from a series of facts. In any case the theory and the facts must correspond.

We will, perhaps, all agree that a tree or plant growing where the seed was planted does not need its roots cut or changed in any way to enable it to attain its best development but we will doubtless disagree about the matter of cutting the branches in different degrees and after different styles, which we call pruning, and some would not cut them at all. The evident purpose of the tree or plant is to make wood and to propagate or reproduce its species. When we bring these same things under culture we generally have different purposes in view than those which are strictly natural, such as the production of large fruit, or excessive development of flower root, or leaf. Therefore, we may need to divert or oppose nature in several directions or degrees.

In carrying out our ideas we are almost sure to need to transplant the greater part of those things which we cultivate, and to be able to do this in the quickest and most successful way is one of the very desirable things to know. Different trees and plants will require different treatment, but there are certain principles that are quite generally applicable.

When a tree or plant of any kind is taken up a part of its roots are almost surely cut or torn away. They generally extend much farther than we imagine. The feeding roots are mostly on the extremities, and are called root hairs and spongiolae. They are so delicate that they can rarely be removed from the soil and replanted in a new place with safety. The absorbing of all the water used by the entire tree or plant, to the tip of the farthest branch, is done by these little organs. If they are not present or are seriously injured growth cannot proceed until they are restored. Nature alone can restore them, and this ability must lie within the plant. If it does not, then, death is sure to follow.

Most trees and herbs, too, have the faculty of storing plant food in their roots and in many cases in their tops as well, for their future use. This plant food we often use as food for ourselves, as in the cases of turnips, beets, potatoes, onions, cabbages and many other vegetables. It is done to some extent by nature in the twigs and buds of trees and shrubs. Animals find good food in many such things, and birds sometimes feed upon buds in winter time. The storehouses of nature are drawn upon for the growth of flowers and seeds very largely, and also for general growth. This can be seen by setting cuttings of various kinds of trees in moist soil, and then observing their behavior. I once set a lot of cuttings of hickory, oak, maple and many others that I know would not strike root, just to see what they would do. The kinds having large buds were the first to start.

WHAT THEN HAPPENED?

and some of them made shoots and leaves of considerable size, but all died for lack of roots to sustain them. The growth was the result of the food and vital force stored in the buds and wood. A cutting that will grow is one that has the peculiar ability to strike roots easily, and thus get food and water from the soil to maintain the growth begun by the parts above ground.

Young trees or plants of any kind have a considerable degree of these vital elements within their structures, and when they are transplanted there must be the proper conditions for their development or success cannot follow. These requirements are variable, of course, but, warmth, moisture, aerated soil, and available plant food are essential in all cases, in some degree. They have the ability to force growth of both root and branches if given anything like proper opportunity. As a large part of the vital force lies in those parts of young plants nearest the collar, as all who have closely observed them have doubtless noticed, it is plain that therein

also lies our best opportunities for causing their future development. This is true, whether it be young annual plants grown from seeds, such as those of the tomato, cabbage, beet, celery, petunia, pansy, etc., or those of the strawberry, raspberry, grape, apple, peach and all others of a woody nature. From these parts we can get the most vigorous growth while the plants are young but not when they are old, except in rare cases.

From the above statements of facts it is easy to understand why we have found it to be true in our practice that it is beneficial to cut away the more delicate and less vigorous parts of both root and top when we transplant. If we cut them back to where the vital forces are greatest we will get the quickest and most vigorous response to our efforts to induce new growth. Nature will immediately begin the process of the re-establishment of the natural functions of the plant by sending out new rootlets and new shoots and leaves, provided the proper conditions of temperature and moisture exist. But, if these conditions are not present then the results will be proportionately unfavorable.

FOR INSTANCE,

If the ends of the roots, where the growth should normally begin, are so deep in the ground that the soil is not warm enough to start growth quickly, then the plants may fall either partially or entirely. We occasionally see trees that have been planted so deeply that they dwindle and sometimes die. In some cases the roots die, partly from lack of sufficient air in the soil, as, where earth is filled in deeply about large trees.

When all the conditions of soil, temperature, climate and plant food are favorable it is better to cut back both top and root before planting, especially if the trees or plants are small. This is the basis of the Stringfellow method of planting, as I understand it. I have tested this plan repeatedly with trees as well as with tender plants, during the last forty years. It works very well under proper conditions but not unless they are just right. In my opinion, that is why it is more applicable in the Southern states, where the climate is milder than in the North, where it is more severe and changeable and the soil more compact.

In cutting back the tops the main benefit is from lessening evaporation. It is, perhaps, generally well understood that the leaves and other parts of a plant that are above ground evaporate great quantities of water in the growing season, and an appreciable but much smaller portion in the dormant season. This water must be supplied by the roots from that stored in the earth. Until the roots are well established we should endeavor to make this draft as light as possible by lessening the evaporating surface.

These statements and explanations comprise the elementary principles of transplanting, as I understand them, and if they are lucid enough to transmit a knowledge of them to others, who, like myself, are seeking knowledge, then, have my efforts been sufficiently rewarded.

H. E. Van Deman.

Floral Notes.

All bulbs coming into flower should have a great deal of water, says Woman's Farm Journal. Bring your hyacinths from the cellar when you wish them to bloom. All plants should be turned about frequently so that the sun can get at all sides of them. Old-fashioned gardens, with their snow drops, daffodils, hyacinths, tulips, peonies, sweet herbs and climbing rose bushes, are again in favor. Plan one now.

As soon as hyacinth bulbs have made roots plentifully, they should be brought out to the light, unless it is desired to retard them. Not much leaf growth will take place in the dark. Care should be exercised at this season of the year not to over-water your plants, as vegetation is inclined to be at a standstill. It is better to keep the roots partially dry while in this resting condition. Sprinkling the foliage of plants three or four times daily will be found beneficial. A pretty decoration for a room can be made with a sponge and some grass or other seeds. Fill the sponge with the seeds, and place it in a glass dish, then pour in sufficient water to keep the sponge moist, and in a short time the seeds will begin to take root, and cover the sponge with a green foliage. The sponge should be kept well moistened. Some people are not aware that flowers will keep fresh much longer if the stems are set in a dish of sand than if they are plunged simply into water.

Wrinkles tell the story of age to those who are able to read between the lines. A man who loved and won says that the best man at a wedding isn't the groom.

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Works on either standing timber or stumps. Will pull an ordinary Grub in 1 1/2 minutes. Makes a clean sweep of Two Acres at a Sitting. A man, a boy and a horse can operate it. No heavy chains or rods to handle. The crop on a few acres the first year will pay for the Machine. Send postal card for Illustrated Catalogue, giving price, terms and testimonials. PAULINE MFG. CO., 825 8th St., Monmouth, Ill. Address Mine Bros. for Shelland Pony Catalogue.

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Little Things.

Tis such a little thing to do
To give a loving kiss or two
To husband, at the door he stands
But you'll be happier all the day,
And work will almost seem but play—
Tho' it never did before.

Tis such a little thing to do—
To press her in your strong arms, too—
Ye husbands everywhere!
And you will all the happier be:
For all day long her face you'll see
By your love, freed from care.

Tis such a little thing to do,
To say, "Goodbye," and "I love you!"—
When parting for the day.
But all day long your hearts, I know,
With joy and love will overflow,
And bright will grow the way.
Nellie Hawks in Twentieth Century Farmer.

I would trim severely any peach tree: I would trim it for symmetry and to throw the balance of power with the root; I would trim it because I get better fruit; I would trim it because it is a method of thinning the peaches, says R. Morrill, in Country Gentleman. I would thin the fruit of a good crop, because the formation of seed is a draft on the tree and devitalizes it. It cannot mature a large crop of pits, but it can mature a large crop of peaches. If it is compelled to mature a large crop of pits, it is in a state of semi-exhaustion, and next year perhaps you will hear of the June drouth. A tree carefully cultivated, fertilized, thinned and trimmed, never suffers from June drouth, and it will add from five to eight degrees to the ability of the tree to stand cold weather, and that frequently makes the difference between an immense profit after a hard, trying winter and nothing.

A tree taken from the nursery should be handled just as carefully as a cabbage plant, should be moved to the orchard with the least possible exposure, and carefully set. In nine cases out of ten, where a tree gives poor results, the fault can be traced back to careless handling before planting.

In this climate, or the climate south of here, I would prune any time in the winter, but I want to tell you one thing—the pruning of the tree hastens the development of the blossom every spring a little quicker, and that puts us up against a difficult proposition in the south. With us we wait until after the 10th of March. Within probably the last twenty years our last severe blizzard has come within five days on either side of the 10th of March, and after that is over, we go right out, get all the help we can and get it done before the buds start, if possible, and I presume that would apply in Southern Illinois as well.

This variety came from Germany about eight years ago, and was controlled by a few berry growers for three or four years. I regard this variety as the largest and most profitable strawberry grown as they are perfect in form; their shape is similar to the Gandy, and color all over when ripe; flavor similar to the Triumph de Grand and excellent for table use, and hold out in size to the last pickings. When other berries are selling on the market for 8 to 10 cents this variety will sell for 12 to 15 cents per qt. Then why grow small berries if it costs as much to grow them and more to get them picked? From ten to twelve berries of this variety will make a quart. I shipped them to Philadelphia arriving there in good condition. This variety has a perfect flower and is a vigorous growing vine; the fruit stalks are immense, the berries standing well up from the ground.

At a low estimate, an acre of this variety well grown will bring from five to six hundred dollars when berries are selling at a fair price.

Have you a mortgage in your farm? When I advise you to set an acre or more in this variety and you will acknowledge that they are a mortgage lifter. I could say much more in favor of this variety but half has never been told. Now if you have any doubts with reference to this variety, come and see them in bearing. They are medium to late.—William Lewis.

To speak of one's self is as difficult as walking on the tight rope. One requires such wonderful balance and so much circumspection not to fall in so doing.—Mrs. Sidney Lear.

All which happens through the whole world happens through hope. No husbandman would sow a grain of corn if he did not hope it would spring up and bring forth the ear. How much more are we helped on by hope in the way of eternal life!—Martin Luther.

IRON AGE

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Double
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We show a few
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in popularity for half a century. Every
one reduces the cost of the crop,
saves time, trouble, and work.

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They were first
in the field,
and are still
first in favor. Write and learn what
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The new **Iron Age Book**, full
of interest for every farmer
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Improved-
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3 SUPERIOR The York Apple, and Ben Davis Apple, with scores of other varieties. Standard Kleffer Pease, and Gordon Peach are only three of the many fine varieties we are showing this year. An orchard stocked with a selection would make money for you.

FRUITS—3. These fruits are all good yields, keepers and shippers. We have hundreds of others, including Apples, Apricots and Strawberry Plants. The Catalogue is free. Write for it.

Harrison's Nurseries,
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GREEN'S FRUIT GROWER
ROCHESTER, N. Y.

Club Offers

—AT—

Astonishing Prices!

Club Offers

—AT—

Astonishing Prices !

We offer Vick's Family Magazine, Rochester, N. Y.; Farm Journal, Philadelphia, Pa., in combination with Green's Fruit Grower, all to be sent monthly, one year postpaid, for fifty cents. Regular price of these journals combined is \$1.50. Or New York Weekly Tribune Farmer and Green's Fruit Grower one year for 50 cents, up to January 25th, after that 75 cents.

Easily the leader of all the high-class household publications. It has 40 to 68 pages each issue, and in the twelve issues carries more than 1,000 pictures. Its departments are the best, and its special features are unexcelled. In short, it is the biggest, brightest and best illustrated home journal published anywhere for one dollar a year. Among the contributors for 1932 are Cyrus Townsend Brady, Hamlin Garland, Henry B. Fuller, Edgar Fawcett, Mrs. Stephen Crane, and many other popular writers.

We offer it with Green's Fruit Grower one year for \$1.

This illustrated magazine is now in its fifty-second volume. It is one of the great modern monthlies. Its program for the coming year embraces features second in quality to no other periodical, while its illustrations will continue to be the highest expressions of magazine art. Monthly, \$1.00 a year.

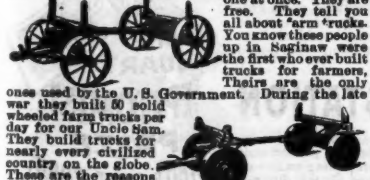
We offer it 14 months with Green's Fruit Grower one year for \$1, and you get free Leslie's chromo calendar, a beautiful work of art.

Subscribers of GREEN'S FRUIT GROWER who may desire some other periodical connected with horticulture, are referred to the following table. The figures in the first column show the regular price of FRUIT GROWER and the publication named. Those in the second column show the price at which the publication named and the FRUIT GROWER will both be sent for one year. At these figures you can get many of the publications named at a third less than the regular subscription price. When more than one publication besides the FRUIT GROWER is wanted, send list of papers wanted and we will furnish the price for the same. We cannot send sample copies of any paper except our own. Requests for others must be sent direct to the office of the paper wanted.

New York Ledger, monthly.....	\$1 50	a 1 30
Rural New Yorker, New York City.....	1 50	1 30
Farmer's Bee Journal.....	1 50	1 30
Youth's Companion, Boston, Mass.....	2 25	2 00
Cosmopolitan, New York City.....	1 50	1 25
Munsey's Magazine, N. Y. City.....	1 50	1 25
Scribner's Magazine, N. Y. City.....	3 50	3 15
Farm and Home.....	1 00	50
Woman's Home Companion.....	1 50	90
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Ohio Farmer.....	1 10	75
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Reliable Poultry Journal.....	1 50	1 00
Practical Farmer.....	1 50	1 00
Poultry Keeper.....	1 00	50
Success.....	1 50	1 25
Agricultural Epitomis.....	1 00	60
Practical Farmer.....	1 50	1 00
Gleanings in Bee Culture.....	1 50	1 25
American Poultry Advocate.....	75	50
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Frank Leslie's Monthly.....	1 50	1 50
Vick's Magazine.....	1 50	1 50
Farmer's Herald.....	2 00	1 50
Farm Journal.....	1 00	50
Farmers' Voice.....	1 00	75
New York Weekly Tribune Farmer.....	1 50	75
Orange Judd Farmer.....	1 50	1 00

Enclose bank draft on New York, P. O.
order or express money order, and your
order will be filled. Individual checks not
taken. GREEN'S FRUIT GROWER,
Rochester, N. Y.

Of course you ought to have a low-down, broad-tire, flat-proof, electric-lighting farm truck, and you ought to have one that possesses all these features. There is but one such truck and that is the Farmers' Handy Wagon Co. of Saginaw, Mich., own the patents for it. Have you ever seen their catalogue? You ought to send for



why they can build trucks cheaper and better than anyone else. Then, too, they can ship a farmer any kind of a truck he needs, for they build all kinds as they own all the patents there are on farm trucks. They guarantee their patented wood wheels for five years, while it is impossible for you to get a guarantee on any other



LESLIE'S MONTHLY Great \$1 Offer

They will mail, entirely without cost, their Beautiful 1902 Art Calendar, artistically illustrating the most "Popular American Actresses and Their Favorite Flower," specially painted for them by Miss Maud Stumm, of New York, the famous American water-colorist; size, 12 1/2 x 10 inches, in three sheets, tied with silk ribbon, lithographed in 12 colors, on heavy pebble plate paper; and the DOUBLE 25TH ANNIVERSARY NUMBER for November, 168 pages; every page illustrated, and the SUPERB CHRISTMAS ISSUE (Both these special numbers beautifully illustrated in colors) with each subscription for the year 1902 and Green's Fruit Grower all year \$1.00.

A Boy Gambler's Experience.

Written for Green's Fruit Grower.

A friend of mine who is now over eighty years old related to me last evening the following experience:

When I was a small boy serving an apprenticeship in a jewelry store, a circus came to Rochester, N. Y., which I desired to attend but I had in my pocket only ten cents which was not enough to admit me. I wandered about the grounds where the monstrous tent for the show was erected, grieved with the thought that I was to be deprived of the pleasure of entering owing to the lack of money. At last I noticed a man well-known in our city, a professional gambler, who was running a wheel gaudily painted which revolved upon a table, on which were painted various numbers. I saw many people placing money upon one of the figures on the table, and when the wheel was revolved the winner was announced, the lucky person taking all the money that had been placed upon the table. I had never gambled but I was in a desperate mood, therefore, after some hesitancy I placed my dime between two ciphers. Imagine my joy when I found I had won \$6.00. I grasped the money firmly in my hand and started away.

"Hold on there boy," called out the gambler, "come back and try your luck again."

No, I replied, I have won enough for to-day.

With the money won at gambling I bought a ticket for the show, indulged in a glass of red lemonade, a package of peanuts, some gaudy colored sticks of candy, spending in similar ways nearly \$3.00 of my ill gotten gain. My acquaintances soon learned that I was spending money more freely than usual, and the news finally reached the ears of my employer, who approached me and asked, "Where did you get the money you are spending?"

I got it honestly, I replied rather equivocally.

"Where did you get it?"

I did not steal it.

"I ask you to tell me this moment where and how you got the money you have been spending on these grounds."

Seeing that evasion was no longer possible, I made a clean breast of my transaction with the gambler. Inquiring how much money I had left, my employer demanded that I return at once to the gambler and pay back every penny that I had left. This I did to the astonishment of the gambler, returning \$3.00 of the amount I had won.

Not long after this event this noted gambler was thoroughly converted. He made a bonfire in the public street of the gambling outfit, joined the church, and thereafter led a new life. One day twenty years later, when I had established a jewelry business of my own, I met on the cars near Albany the former gambler of whom I had won \$6.00. He was now a changed man and had been elected to the state Legislature. I took a seat by his side, told him I was from Rochester, N. Y., and began to relate my gambling experience with him twenty years before, when he rose up exclaiming, "My God, are you that boy? I have been looking for you for many years. I remember the circumstance well. I shall not forget it to the day of my death. Your returning that money to me changed the entire course of my life, and was the cause of my conversion."

Since then I have not gambled even to the extent of a dime.

In pruning a light open head is desired. The first season's growth should not be shortened too much, but the second season all the strongest branches may be liberally shortened, leaving the side branches to spread so as to make a broad low head. In case it seems best not to cut a leader entirely away, never cut back to a dormant bud, but always to some side branches; these will slowly take on growth and fruiting strength and check the upward tendency of growth that is sure to follow the cutting back of a strong peach limb to a dormant bud. Not much attention need be paid the side branches; they will never make leaders, and in the author's opinion it is a mistake to do so. A tree pruned as here suggested should give three-fourths of its fruit near enough to the ground so that it can be gathered without a ladder.

Sense and beauty, like truth and novelty, are rarely combined.

A wise man speaks well of his friends, and of his enemies he speaks not at all.

Much of man's unhappiness is due to his getting what he expects, but doesn't want.

There is a vast difference between second thoughts and second-hand thoughts.



\$1,000.00



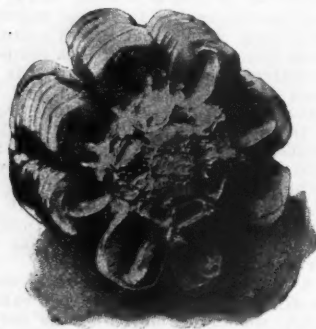
IN CASH PRIZES!

OPEN TO THE WORLD.

A Farming Test in Corn and Potatoes.



Epitomist Prize White Dent.



Epitomist Prize White Dent No. 2.



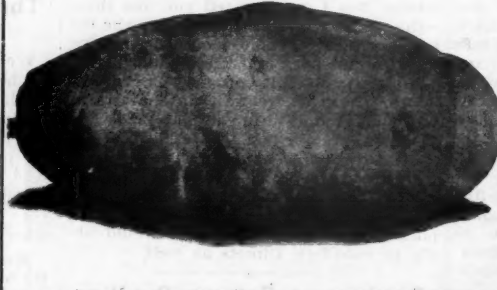
Epitomist Prize Yellow Dent.

PHOTOGRAPHS TAKEN FROM NATURE AND ACTUAL SIZE OF SPECIMENS OF CORN GROWN AT EPITOMIST EXPERIMENT STATION, IN DROUTH-STRIKEN REGION, SEASON 1901.

136 CASH PRIZES

for Largest Yields made from ONE QUART of either variety of White Dent, or Yellow Dent Corn, and from ONE POUND of Potatoes. Each Amounting to \$500.00.

First Prize.....	\$125.00
2nd	75.00
3rd	50.00
4th	25.00
5th	15.00
6th	10.00
10 Prizes \$5 each.....	50.00
10	30.00
10	20.00
100	100.00



\$500 FOR CORN AND
\$500 for POTATOES,

\$1000 in all

\$500 cash for each and 136 cash prizes for each, distributed in amounts as described opposite. 272 Cash Prizes besides many supplementary prizes, aggregating not less \$1,000, also contributed by leading manufacturers, stock and poultry raisers, who are interested in encouraging more thorough cultivation of the soil. Full particulars of supplementary prizes will be given in our booklet fully describing corn and potatoes. This booklet also contains names of the 107 prize winners in last season's contest and yields made from one quart of Epitomist Prize White Dent Corn, also letters from leading farmers from every state in the union, who raised Epitomist Prize White Dent Corn the past season. Booklet and sample copy of the Agricultural Epitomist mailed free to any address for the asking.

FOR 70 CENTS every one gets Corn or Potatoes and one year's subscription to the AGRICULTURAL EPITOMIST, the Only Agricultural Paper edited and printed on the farm, and a cash prize if successful in making one of the largest yields. Blanks and full particulars for reporting yields in competition for prizes will accompany each quart of corn and each pound of potatoes. Every farmer and gardener knows what the price of seed corn and potatoes is, so it is hardly necessary to say that we are not selling seed corn and potatoes, but practically giving them away to subscribers of the EPITOMIST for the purpose of introducing seed that we know to be unexcelled, and to encourage more thorough cultivation.

Epitomist Prize White Dent Corn

is a variety of remarkable characteristics. The length of the ears is from ten to twelve inches; the circumference is seven and a half inches and sometimes more; the cob is small and completely covered with grain, the grain will average a half inch in depth and same in width, and is unusually thick; the weight of grain and cob average something over a pound, and there is over ninety per cent of grain. The EPITOMIST PRIZE WHITE DENT is an early variety that will mature anywhere within the corn belt, and to those who appreciate the value of corn fodder, it recommends itself, as it produces a luxuriant growth of stalk, many of which in our fields were 15 feet high. It is certainly the best variety of corn that was ever grown or seen grown, and there is every indication that it contains an unusual percentage of protein, and the higher the percentage of protein the more valuable the corn. It made the past season, in nearly every state in the United States and Canada, some of the largest yields of any of the different varieties of corn and proved itself to be a Remarkable Drouth Resister. A Quart, with careful cultivation, will grow more than enough to plant 200 acres.

Epitomist Prize White Dent No. 2

is a most wonderful variety of corn. It has an exceedingly large, wide and deep flinty grain; is very transparent, showing that it has very little bran. Cob is unusually small. This corn weighed heavier than any other variety grown at the Epitomist Experiment Station the past season. From two to three good ears grow to the stalk, and has from eight to twelve rows on the ear, sometimes more according to the strength of the land. It makes a very sweet bread meal, and is relished by all stock and is very desirable for feeding. Stalks are well filled with broad blades and grow to great height, making it a perfect ensilage and fodder corn. It is especially adapted for southern climates and is not recommended for planting north of the Mason-Dixon line.

Epitomist Prize Yellow Dent

is a variety of corn which cannot be excelled anywhere in this country. 1901 was its second year. It was originated and hybridized by Samuel Ray, of Illinois, commonly known as "Uncle Sam." The ears are from nine to fourteen inches in length, grain deep, broad and thick and set close and firmly together. The cob is red and very small, has very little chaff, ears are covered with a very thin husk and the stalks grow from six to eight feet in height and stand very erect. Eighty pounds of ear corn has shelled seventy-two pounds of choice, deep orange colored grain. This corn, which was grown for the first time at the Epitomist Experiment Station this season, is not a Hack Corn but a Pure Dent Corn, and the propagation has been by Selection and Restriction. Epitomist readers who prefer a Yellow Dent corn to a White Dent must not fail to secure some of this corn which we do not hesitate to recommend for any climate where corn will grow.

Epitomist Prize Potatoes.

This is a most desirable variety, being of exceedingly strong growth, a heavy yielder and excellent keeper. It is a late potato and the best shipping variety in cultivation. Vines are very vigorous, blight and insect proof, stands erect and tubers lie closely together in hill, thus allowing for close planting, and thorough cultivation. The foliage being deep green and very abundant makes them a great heat and drouth resister. As will be noticed from photograph of potato, the tubers are oval, thick and round, holding thickness well to ends, eyes shallow. The skin is pure white, thin, but firm and tough. Flesh, pure white, dry and mealy, and has a most delicious flavor. Altogether it is a most desirable, and a general purpose variety and one that we have no hesitancy in recommending for planting anywhere, as it has proved to succeed under the most trying and varied circumstances. An ordinary potato could not have withstood the drouth that this one did at the Epitomist Experiment Station the past season. One pound of potatoes will grow enough seed to give everyone a good start for next season.

THE EPITOMIST EXPERIMENT STATION

is without doubt the most beautiful spot in the State of Indiana. Over \$100,000 has been spent in improvements on this Experiment Farm, where the Agricultural Epitomist is edited and printed amid the activities of real farm life. Its beauty of scenery and perfect climate, with its pure spring waters are hard to surpass in any locality. We have at this Experiment Farm of 600 acres all the different soils found in Indiana or in almost any other state, as well as the varied conditions requiring drainage, irrigating, enriching, etc., all of which are included in our experiments which are written up in the Epitomist from month to month.

OUR OFFER.

Our experiments embrace all lines of Agriculture, Horticulture, Live Stock, Dairying, and Poultry Raising, and as the growing of these three varieties of Corn and one variety of Potatoes, which we have named EPITOMIST PRIZE, is the result of our second season's work and most successful experiments, we are not only going to give Epitomist readers some of the seed to raise, but \$1000 in prizes, for the largest yields made therefrom, the same to be awarded as described above. Every subscriber to the Epitomist is entitled to participate in contest. All one is required to do in order to enter any one of the above contests, is to remit 70 cents—50 cent for the Agricultural Epitomist one year and 20 cents to pay for postage, packing, etc., for either variety of Corn or the Potatoes. No Corn or Potatoes will be supplied to anyone not a subscriber to the Agricultural Epitomist, and paid one year in advance, and then only one quart of corn or one pound of potatoes. However, every subscriber will have the opportunity of securing a quart of each of the three varieties of corn and one pound of potatoes: First by subscribing themselves and securing one variety; then with every new subscription at 50 cents (or 70 cents with one variety of corn or potatoes) a quart of corn or one pound of potatoes will be delivered absolutely free, postage prepaid, to the one securing the new subscription. When you send in your own subscription we will then send you booklet, described in this offer, which will give full particulars for securing new subscriptions, and for entering the two contests for cash prizes, as well as particulars for competing for supplementary prizes. With every quart of corn we will send a booklet containing description of cultivation and fertilization pursued by the 107 prize winners in last season's contest, which alone is worth several times 70 cents to any corn grower.

ADDRESS ALL ORDERS AND MAKE ALL REMITTANCES PAYABLE TO

**Agricultural Epitomist, Epitomist Experiment Station,
SPENCER, INDIANA.**



PRIZE POTATOES



Correspondence

A WORD FOR ASPARAGUS.

Editor of Green's Fruit Grower—Asparagus may be served in so many different ways, that it may be used every day during its season in some form, and always be a desirable addition to the meal.

The tender parts may be tied together in bunches and boiled, seasoned with salt and pepper with a little drawn butter, (some like vinegar added just as it goes to the table). Then it may be boiled as above and just before it is ready to serve add a tablespoonful of flour and the same of butter stirred together and one tea-cupful of milk with pepper and salt to taste. Have ready some squares of well toasted bread over which turn the sauce placing the asparagus on top in bunches.

From the parts of the asparagus not tender enough to be used in this way, and which may be saved, if kept in a cool place for a day or two; may be made a soup which is very nourishing and palatable. After boiling the tough pieces until very tender strain and season to taste; thicken with a well beaten egg and a little flour, or if preferred, with a cup of bread or cracker crumbs. Then again we may serve as green peas cutting the tender parts of the asparagus into pieces the size of peas and serving the same way. Many with whom peas disagree can eat the asparagus with impunity. The medicinal properties of asparagus should not be overlooked. It is used to induce perspiration, also as a diuretic.

A tea made from the roots is also strongly recommended for dropsy.

In any way we are pleased to use the asparagus, it acts gently upon the kidneys and is much to be preferred to drugs commonly used for that purpose.

Then why not cultivate and use more asparagus? It can be used for at least three months of the year if kept regularly cut, and is less trouble than almost any other vegetable.

We would not be without our asparagus bed for many times the cost of placing it in our garden.—S. K. M.

In a recent issue of Green's Fruit Grower the editor in answer to an inquiry said, "Yes, I would prefer to live after death. It is not pleasant to anticipate annihilation." I would like to ask if it is not more pleasant not to anticipate death at all, but to desire to live forever? Replying to which our editor says, "No, that he would not desire to live forever. He is certain he would become tired of the monotony of life, its trials and obligations after a few hundred or a thousand years of life, and he knows there would not be room on this earth for the people if they should all live forever. Therefore he knows that perpetual life is impossible." Our correspondent says: "I speak from experience, for I have died once and I don't want to die again. God showed me that the reign of death was over. He raised me up once more to live and no more to die. He showed me that death is not a friend but an enemy. Christ came not to bring death upon the earth but life. The Bible says, 'God has wiped away all tears from their eyes and there shall be no more death, neither sorrow nor crying, nor pain, for the former things have passed away.' When

men awake to the fact that they have a right to live forever, and understand the question it will be easy and natural for them to exercise faith and overcome mortality."

Robert B. Nye writes Green's Fruit Grower that he is familiar with rattlesnakes, knows their habits and peculiarities, and that he is convinced that they do not lay eggs, or that their young is not produced from eggs, as has recently been stated. He says he will give a \$5 gold piece for a rattlesnake's egg with a rattlesnake in it.

P. D. Kaiser, M. D., of New Mahoning, Pa., writes Green's Fruit Grower as follows: We are told that the time is soon coming when winter apples such as Ben Davis can hardly be sold, and that there must be grown a finer and superior quality of apple. It is not generally known that varieties of superior quality have almost all originated in Canada, New York, Massachusetts, New Jersey, Pennsylvania, and Ohio. Outside of this territory but few dessert apples have originated. Southern apples lack size and flavor. None of the Russian apples are of superior quality. I would like to learn about the New York Somerset apple of fine quality ripening in October. Can any of your readers tell me about that variety?

Samuel Schirenk, writes Green's Fruit Grower in regard to the complaint of our readers, where water ran out of the limbs after they had been cut off. His opinion is that branches of trees cut off on damp or rainy days do not heal so readily as those cut on sun shiny or dry days, and that if cut on rainy days they are liable to act as do those complained of. All this is entirely new to the editor of Green's Fruit Grower.

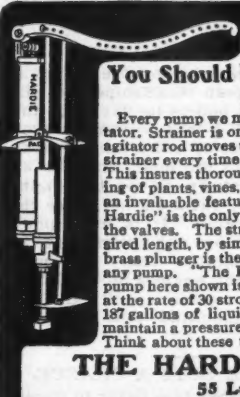
Mr. C. Burbank writes Green's Fruit Grower from the state of Washington as follows: Many of the most desirable varieties of apples as grown in New York state are a failure in far Western locality. Baldwin, Greening, Northern Spy, etc., do not succeed here, since our climate is too warm. Yet we have the best fruit valley on earth and the best market for fruit. Our market extends to Chicago on the East and Puget Sound on the West. Our valley carried away the gold medal from the Pan-American exposition. We have the finest climate on earth. We have one inch of snow up to date, the coldest weather 13 above zero. We have cut four crops of alfalfa, the yield being eight tons to the acre. I have seen 95 tons of alfalfa cut from 9-14 acres. We raise all kinds of tender fruits such as grapes, apricots, almonds, etc., the altitude is 700 feet above the level of the sea. Black Ben Davis, Y. N. Pippin, Jonathan and Spitzenberg are our leading apples. We pack apples in 50-pound boxes selling at \$1.50 per box.

S. H. Warren, of Massachusetts, asks Green's Fruit Grower whether A. M. Cole's experiments by irrigating land through deep trenches or ditches was successful. Our editor was deputized years ago by the New York Tribune to visit A. M. Cole's place at Wellsville, N. Y., and investigate his system. There was several acres of land on the side hill all deeply trenched by zigzag ditches descending from the top of the land to the lowest corner. In these ditches tiles were placed and in these tiles water was running a large portion of the year. High culture was given and remarkable results were shown in the way of crops of strawberries, raspberries, grapes and other garden vegetables, etc. It is my opinion however, that it would not pay in this country to invest so much labor in trenches or ditches when good land that will produce good fruit crops can be bought at such low prices, without demanding expenditure of large sums of money for ditching or irrigation. I estimate that Mr. Cole had spent at least \$200 per acre for his ditches.


John S. Roberts, of Indiana, asks Green's Fruit Grower how he can enrich and build up his light sandy soil without the use of stable manure. The field contains ten acres that never has had a load of manure. In reply I will say that such soil needs humus, therefore needs barnyard manure particularly, since such manure adds humus and commercial fertilizers do not. But since he cannot get barnyard manure, I advise that he sow buckwheat, plowing it under when it has reached its full growth; then sow rye and let it stand over the winter, plowing it under in June, then buckwheat again, or some other green crop, continually plowing under green crops, which add humus. In connection with green crops, sowing and plowing under, he can apply commercial fertilizers composed of potash and dissolved bone at the rate of




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The BEST, CHEAPEST and MOST EFFECTIVE device for spraying Gardens, Orchards, Lawns, Stables, Chicken Houses, etc. No continuous pumping. Compressed air drives the spray automatically. Can be operated by a boy; will save his cost in a few days. Never breaks down or gets out of order. Nozzles, stop cocks and all fittings which come in contact with insecticide solutions are solid brass. The AUTO-SPRAY cannot rust, corrode or leak. The Auto-Spray Torch is one of our prominent attachments. It is the only torch which really kills worms, etc. It burns kerosene vaporized with oxygen and a single blast will destroy a nest of caterpillars. Ask Your Dealer for the Auto-Spray, or write us for free instructions. "How and When to Spray," which will be gladly sent to any address. Write us if you want agency.
E. C. BROWN & CO., Dept. J RICHMOND, N. Y.



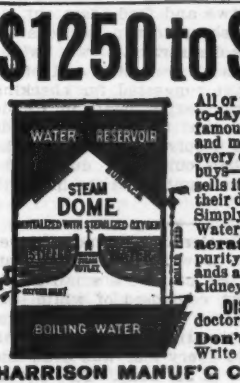
A FEW REASONS WHY
You Should Buy "The Hardie" Spray Pump in Preference to One of Any Other Make.
Every pump we make is supplied with our strainer and agitator. Strainer is on side of extreme end of suction pipe. The agitator rod moves the agitator up and down in front of the strainer every time the pump handle is worked. See cuts. This insures thorough mixing and prevents burning or scalding of plants, vines, etc., from heavy deposits of poison. It is an invaluable feature in painting and whitewashing. "The Hardie" is the only pump that requires no wrench to get at the valves. The stroke may be instantly adjusted to any desired length, by simply changing a pin in the handle. Our brass plunger is the most simple, durable and serviceable on any pump. "The Hardie" is a large capacity pump. The pump here shown is our No. 7. When this pump is worked at the rate of 30 strokes per minute it will reduce to fine spray 187 gallons of liquid per hour. All the "Hardies" easily maintain a pressure of 100 pounds with two nozzles open. Think about these things and then send for our free catalog.
THE HARDIE SPRAY PUMP MFG. CO.,
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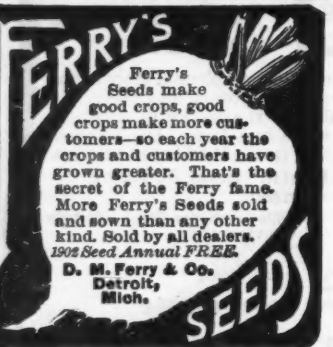
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SECRETS OF FRUIT GROWING.

C. A. Green has been photographing orchards, vineyards, berry fields, etc., and has collected over 100 photographs in a new book with helpful suggestions to fruit growers, instructing the reader in the secrets of fruit growing. It is unlike anything published, illustrating and describing methods of planting and growing trees, etc. Something every fruit grower should have. The price is 25c, but we will accept 10c. If you will mention this paper. Our new fruit catalogue will be sent in the same package. Address:

GREEN'S NURSERY CO., Rochester, N. Y.

Correspondence Continued.

3, 5, or 10 hundred pounds to the acre, as he may deem best. It might be best to apply a small amount at one time, giving it another dressing of commercial fertilizer at another time, rather than to apply all at once. It is no easy job to build up such poor sandy soil as this, which has been badly worn out, but it can be done. I have had five car loads of stable manure shipped to apply on a portion of a little farm of twenty acres that I have recently bought, which is somewhat run down, but not in the very poor condition mentioned by Mr. Roberts.

N. A. Caldwell asks how the boilers are arranged on ocean steamships and ships of war. Do the boilers lie flat or do they stand upright? I once crossed the ocean in a large steamship and a number of our party went into the hold, where it was very hot and stuffy, to see the engines and machinery, but I did not make that visit of exploration. It is my opinion that the boilers are not upright but that they lie horizontally. There are many boilers and many engines on the largest ships, they have great capacity and burn coal by the thousand tons on each voyage.

GIVE THE BOYS A CHANCE.

Mrs. S. C. J. says in a letter to Green's Fruit Grower, that farm hands are becoming scarce. The query is, what has become of the young men who in former years used to remain in the country satisfied with working upon the farm for monthly wages? She used to find plenty of boys who were in want of a home. She thinks some of these boys, for technical reasons are sent to truant schools, where they are corrupted by evil associates and are never heard of again in the country. She does not think that reformatories reform these boys. She holds that there is no place so safe for boys as the free air and green fields of the farm.

Reply: It has long been and ever will be a leading question, what shall we do with truant or ungovernable boys or for that matter ungovernable men? Thus far the answer has been, lock them up in some reformatory or prison for a season. This has seemed to be the only thing to do, since these wild boys or men disturb the peace of well behaved people. It is true that confinement or imprisonment does not often reform these men or boys. Undoubtedly the best thing fathers and mothers can do for their children is to permit them to inherit a good moral character, as our friend P. C. Reynolds, remarked many years ago. If they inherit such a good character they will not be inclined to wickedness. But there is another reason why laborers are scarce in the country. Farmers use more machinery than formerly and employ less men by the season (of eight months) or by the year than in old times. Farmers now want men only for a few weeks in harvest or haying. No man can afford to loaf around for so little work. We employ men for eight months and many by the year, and can get all the help we require.—Editor G. F. G.

THE RAILROAD WORM.

Editor of Green's Fruit Grower: Please tell your readers how to conquer the railroad worm that destroys all the apples.—D. A. Kneeland, Vt.
Reply by Professor M. V. Slingerland, of Cornell University: The apple maggot or "railroad worm" is fast becoming a more serious menace to apple growing in New England and New York, than that standard pest—the codling moth. One can greatly lessen the numbers of "wormy" apples with a poison spray, but the apple maggot is beyond the reach of any kind of a spray. The only valuable point in the life of this pest seems to be the fact that none of the maggots ever leave the apples until they either drop off as "windfalls" or are picked in the autumn. This gives us a chance to either pick up the "windfalls" every day or two and feed them out, or allow hogs or sheep to run in orchards, in grass. This destruction of the "windfalls" is the most promising and effective method yet suggested for checking the pest. Recent experiments in Rhode Island indicate that if infested orchards are plowed as deeply as possible in the spring and then cultivated during the season, that the numbers of the flies will be reduced.

Timothy Wheeler, of Vermont, gives Green's Fruit Grower the result of his experiments. He painted a small maple tree with paint, composed of white lead and oil, from the ground to the lower limbs, when the tree was in full leaf. In twelve days every leaf was dead and would crumble in his hand. This should

warn fruit growers to be careful about applying any oily substance to the bark of fruit trees, and yet crude petroleum oil in the form of a fine spray has been applied to all kinds of fruit trees successfully in destroying the scale, but it must be applied early in the spring before any leaf growth begins. He says that butter, sugar and fat have no fertilizing value. He has found that the richer the soil the less seed oats should be sown, and that oats fall down or lodge owing to the reason that the soil is rich and oats are sown too thickly. If the soil will not stand two bushel of oats sow only 11-2 bushel of seed per acre. A neighbor once sowed one bushel of oats per acre and his crop yielded one hundred bushels per acre, but the soil was very rich.

He says the extension of the roots of trees depends upon circumstances. He was once building a road through a pasture, at the foot of a hill, near a swale. He found to his astonishment, a large live root an inch in diameter, though there was no tree nearer this damp spot than the top of the hill, where stood an ash tree. The distance from the tree to the root I found was 50 feet. How did the trees know where was moist ground in the valley below? It sent only one root down for this moisture; elms, butternuts and willows will send roots long distances for water.

Arthur J. Reed, writes Green's Fruit Grower that he often hears it expressed that fruit growing may be overdone, since there are many orchards being planted in different parts of the country. But he says we must consider that the demand for fruit is rapidly increasing and that new markets are being opened in thousands of localities throughout every state, also that there is a vast amount of territory where fruit cannot be grown successfully. His opinion is, that all who plant orchards, do not make a success of orcharding, and this affects the amount of fruit produced. He considers the outlook for the future good for the fruit grower, who has a liking for the work and a thorough knowledge of fruit growing; adopting such means as will produce first-class specimens.

Bernard R. Abel asks for information about soil analysis. Our experiment stations at Geneva and Ithaca, N. Y., can do this work but whether they would or not I cannot say. They could not afford to do this work without charge but whether they would charge \$5 or \$10 I could not say. Soil analysis does not amount to very much, since there are many soils that from analysis would appear to be very fertile which would produce poor crops, since the fertility might not be available for various reasons. If the soil was wet and needed under-draining, or if was hard clay and needed to be pulverized, the soil might be very rich and still produce poor crops.

I am not an authority on geese but know that they require large territories, the larger the better.—Editor Green's Fruit Grower.

In reply to George Dupree, Brockton, Mass., I will say that the time to bud an apple, pear, plum, cherry or quince is usually in July and August. The season for budding varies in different sections several weeks, according to the weather. If the early part of the season is dry, we sometimes have to wait until later rains arrive before the bark will open and bud nicely. There is no use in trying to bud when the bark will not part freely from the wood. Unless the bark is full of sap and parts freely from the wood the bud will not succeed. In budding small nursery stock sometimes the wood is too full of sap to bud successfully. It requires considerable experience to know just the date to commence budding where you have 200,000 to 1,000,000 stocks to bud.—Editor G. F. G.

SICK MADE WELL, WEAK MADE STRONG

Marvelous Elixir of Life Discovered by Famous Doctor-Scientist That Cures Every Known Ailment.

Wonderful Cures Are Effected That Seem Like Miracles Performed—The Secret of Long Life of Olden Times Revived.

THE REMEDY IS FREE TO ALL WHO SEND NAME AND ADDRESS.

After years of patient study, and delving into the dusty record of the past, as well as following modern experiments in the realms of medical science, Dr. James W. Kidd, 202 Baltes block, Fort Wayne, Ind., makes the startling announcement that he



DR. JAMES WILLIAM KIDD.

has surely discovered the elixir of life. That he is able with the aid of a mysterious compound, known only to himself, produced as a result of the years he has spent in searching for this precious life-giving boon, to cure any and every disease that is known to the human body. There is no doubt of the doctor's earnestness in making his claim and the remarkable cures that he is daily effecting seems to bear him out very strongly. His theory which he advances is one of reason and based on sound experience in a medical practice of many years. It costs nothing to try his remarkable "Elixir of Life," as he calls it, for he sends it free, to anyone who is a sufferer, in sufficient quantities to convince of its ability to cure, so there is absolutely no risk to run. Some of the cures cited are very remarkable, and but for reliable witnesses would hardly be credited. The lame have thrown away crutches and walked about after two or three trials of the remedy. The sick, given up by home doctors, have been restored to their families and friends in perfect health. Rheumatism, neuralgia, stomach, heart, liver, kidney, blood and skin diseases and bladder troubles disappear as by magic. Headaches, backaches, nervousness, fevers, consumption, coughs, colds, asthma, catarrh, bronchitis and all affections of the throat, lungs or any vital organs are easily overcome in a space of time that is simply marvelous.

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The Thanksgiving Prune.
Prof. L. H. Bailey of Cornell University says that this prune is certainly the longest-keeper which he has ever seen. The weak point with most varieties of plums is that they will not keep, but decay quickly. Marketmen are discouraged in handling plums that rot quickly, hence the great advantage of Thanksgiving Prunes, which will keep for weeks in baskets as usually shipped and marketed. The editor of *Green's Fruit Grower* has eaten these prunes in January, and has kept them lying on his desk for two weeks in January, when he ate the rest of them, and there was no sign of rotting. The fact is, that Thanksgiving Prunes can be placed on shelves in an ordinary house, where they will remain without rotting until they are thoroughly evaporated like the dried prune of commerce; but this evaporation goes on slowly, therefore for many weeks the prune will be found juicy and delicious to eat. The quality of this prune is superior to most varieties, being sweet and rich. It is the large amount of sugar in this variety that preserves it so long. Thanksgiving Prune ripens about the first week in October at Rochester, N. Y. It has been named Thanksgiving Prune owing to the fact that N. B. Adams had the prunes in his house on Thanksgiving day in good eating condition. You will notice that this is one of the most remarkable prunes ever introduced. It has been thoroughly tested.
One two-year-old tree of this Prune will be given free with each order of \$10 or more, made up from this catalogue, at prices given herein, if ordered on or before March 15th.
GREEN'S NURSERY CO.,
Rochester, N. Y.



The Thanksgiving Prune.

What's the matter with you any how? Our hens won't lay, the butter won't come, and our girls can't cut their wisdom teeth properly without Green's Fruit Grower. My neighbors—C. F. Prescott and George A. Dockway—complain that their little children keep them awake nights crying because their January paper has not come.—E. W. Paine.

L. E. Rathburn asks information of Green's Fruit Grower and we reply as follows: Fresh apple juice may be bottled in the same manner that grape juice is bottled, or in the same way that fruits are canned I assume, though I have no personal experience along this line. How to trim grape vines would require a long article. In brief, leave from three to five canes nearly the full length, or sufficient to cover the trellis, and cut back the new growth to three buds. The number of canes left to cover the trellis depends greatly upon the number of vines, the age and variety. Usually too much wood is left upon the vines. Bushel boxes or even smaller boxes are desirable for shipping apples of superior quality to fancy markets where they bring a fancy price, but they would not pay for putting up ordinary grades of apples. Plainly speaking barrels are good packages for apples.

With us the best market strawberry is Corsican but fruit growers in other states have their particular favorite, therefore we cannot speak for all. Brandywine is firmer than Corsican, is later and an exceedingly valuable variety. Clyde strawberry is an enormous bearer, with very large berries of rather light red color; its greatest fault is softness, which is particularly notable after continued rains. Nearly all strawberry growers now grow strawberries in narrow matted rows, but the plants should not be too thickly matted in the rows. The ideal matted row would be where the plants are six inches apart. I do not know of any strawberry grower growing strawberries in hills, since the hill culture has been abandoned, except by some fancy gardeners who grow them in a small way.

John T. Screws writes Green's Fruit Grower that Alabama is well adapted to fruit growing, with plenty of desirable uplands, but the people of that state do not seem to be much interested in fruit growing, which he deplores. Our advice to him is to avoid the low lands in planting either large or small fruits. We give this advice to all as a result of our experience in New York state. Possibly, and very likely, there are localities where low lands may be better than uplands, particularly at the South, and Alabama is a Southern state, still if we were planting there we would select the uplands for the reason that they are naturally well drained if for no other reason. If compelled to plant on the low lands, I

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should drain them before planting, if they are in the least inclined to hold water. We cannot state how much fertilizer to use per acre since we know nothing of the conditions of the soil mentioned, but on such sandy land as is mentioned 500 pounds of the best grade phosphate would not be too much. This subscriber wishes to thank our contributor, P. C. Reynolds, for his helpful article in our January issue on "How Plants Grow."

Theodore Smith, of Whitman county, Washington, a subscriber to Green's Fruit Grower, writes as follows: I am a fruit and tree grower and came originally from Vermont. I spent twenty years after I was 21 in various Western states. In 1872 I settled in the state of Washington. I have been growing fruit and trees here ever since, and have never found the slightest difficulty in producing good trees, good fruit, also good vegetables and everything that a farm produces. This is as easy a soil to till as I have found anywhere and also the most productive. It needs no irrigation if properly cultivated. I am not troubled with insect pests except the codlin moth and sometimes the aphid. I have never known frost to injure fruit in blossom here except once, and then but slightly. Other sections where there are deep valleys may fare worse in this respect. I found the Antwerp raspberry growing here among the natives. It is a good berry but too soft. The Marlboro does well here, also the Cuthbert.

A. Hagerman, of Central New York, writes Green's Fruit Grower, as follows: I wish to call the attention of fruit growers to the profit that may be secured by growing bright red raspberries for market. Last year's crop of such berries in this locality was inadequate to meet the demand, and this condition has prevailed for several years. I refer to such varieties as Loudon, Cuthbert, and Marlboro, which sell in this market at 35 cents per pound; they can be grown at a profit at a lower price than this. If over-ripe red raspberries crush in handling, and are not salable at high prices, therefore they should be sold in pint cups and picked before they become soft. This makes it necessary to pick at least every other day. The dark red raspberries and black raspberries do not sell near so well in this market.

I would advise E. M. of Auburn, N. Y., to plant Abundance, Wickson, Burbank and Satsuma plums. These kinds will endure zero weather. H. E. Van Deman.

C. D. Cheney reports to Green's Fruit Grower his method of making a pit for rooting bulbs, etc., as follows: Cut a barrel in half, or better, leave the lower part taller, throwing the upper part away. Then made a frame about two feet square and ten inches deep of boards, and from the same material a cover a little larger than the frame; this cover should be rain proof. In a dry and protected corner of the garden I dug a hole and set this half barrel, filled to within six or eight inches of the top with surface soil, packing the earth firmly around it. Then the frame was set around the pit, and the earth was filled in and banked around it even with the top, making a slope to shed water. In this pit I have rooted hyacinths and freesias and have stored several bunches of celery and some celery plants successfully.

Slaked lime, or in fact any form burnt lime, simply loosens the potash and other ingredients in the soil. Apply it at the rate of 10 to 20 bushels per acre sown broadcast. Remember that slaked or fresh burned lime is not a fertilizer but that it acts upon the soil, liberating potash and other items of fertility that the soil already possesses. I do not advise applying lime to sandy soils, since sandy soils give out their fertility freely enough. But clayey soils do not liberate their fertility so freely therefore a dressing of from 10 to 20 bushels of air slaked lime spread broadcast over the soil, may have the effect of fertilizing the field, but do not give this same field a dressing of lime oftener than once in 5 or 10 years.

To Asa Child, Baldwinville, Mass.—There are two serious diseases of red raspberries, one anthracnose, which is fatal and which occurs mostly on low wet land, in which case the bark splits open, and the canes look rough and ragged; the other disease is root gall. Dig up some of your diseased plants and if you find knots on the roots, the trouble is root gall. In either case I should plow up the plantation and plant a new one in a different locality, but possibly your plants are troubled with some other disease.—Editor.

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Disorders of the Kidneys and Bladder cause Bright's Disease, Rheumatism, Gravel, Pain in the Back, Bladder Disorder, difficult or too frequent passing of water, dropsy, etc. For these diseases a Positive Specific Cure is found in a new botanical discovery, the wonderful Kava-Kava Shrub, called by botanists the piper methysticum, from the Ganges river, East India.

It has the extraordinary record of 1,200 hospital cures in 30 days. It acts directly on the Kidneys, and cures by draining out of the Blood the poisonous Uric Acid, Lithates, etc., which cause the disease. James Thomas, Esq., of the Board of Review Bureau of Pensions, Washington, D. C., was cured after many physicians failed and he had given up all hope of recovery. Nathaniel Anderson, Esq., of Greenwood, S. C., writes: "Was a sufferer of Kidney and Bladder troubles, which caused two hemorrhages of the kidneys; had to urinate every few minutes; physicians told him his case was incurable, but was completely cured by Alkavis. Alvin D. Lane, Auburn, Me., writes: 'Was cured of rheumatism, which was so severe as to cause him to use crutches. Hundreds of similar testimonials can be produced if desired. Many ladies, including Miss Viola Dearing, Petersburg, Ind. Mrs. E. R. Dinsmore, South Deerfield, Mass., also testify as to its wonderful curative powers in Kidney diseases and other disorders peculiar to women."

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7 NEARLY 2 FEET HIGH
FRENCH DOLL



Any one can earn Dolls, Bracelets, Rings and other Valuable Premiums. This is a beautiful Imported dressed Doll nearly two feet tall, a perfect beauty imported direct from Europe. This lovely doll has a beautiful turning bisque head, peppy teeth, long golden hair, natural sleeping eyes, jointed body, real slippers, stockings, etc., by introducing our latest Parisian Novelties, ladies' and misses' belt pins, hair barrettes, beauty pins, etc., at ten cents per card. Our Grand 30 day Proposition which is apart from above, send us your full name & address. We will send you 15 cards of our latest Parisian Novelties postpaid. You sell at ten cents per card and return French Doll also a gold finished ring.
FRENCH NOVELTY CO., Dept. N28 Bridgeport, Conn.

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"WALNUTTA" HAIR STAIN
is prepared from the juice of the Philippine Islands walnut, and restores Gray, Streaked, Faded or Bleached Hair, Eyebrows, Beard or Moustache to its original color. Instantaneously. Gives any shade from Light Brown to Black. Does not wash off or rub off. Contains no poisons, and is not sticky or greasy. "Walnutta" Hair Stain will give more satisfactory results in one minute than all the hair restorers and hair dyes will in a lifetime. Price 60 cents a bottle, postpaid. To convince you of its merits we will send a sample bottle postpaid for 20c.
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which will give you a beautiful complexion. It is not a face powder, cream, cosmetic or bleach, but is absolutely pure and you can use it privately at home. It permanently removes moth patches, freckles, crow's feet, pimples, blackheads, fleshworms, yellowness, wrinkles, tan, sunburn, and all complexion blemishes. Address, Madame M. Ribault, 2886 Elm Building, Cincinnati, Ohio.



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or the man who grows small fruits and berries is the one we are talking to. Experience has taught you that you may spray. For your purposes the
MYERS' Spray Pump
has no equal. It is essentially a spray pump; not merely a sprayer. Its cylinder and other working parts are brass. It includes barrel, 5 ft. hose, 2 ft. extension pipe with adjustable nozzle, throws mist, spray or continuous stream. Outfit complete for orchard work. Get our free illustrated catalog, describing our full line of pumps, farm implements, seeds, etc.
ROSS BROTHERS, WORCESTER, MASS.



Correspondence Continued.

Addison E. Moreland writes Green's Fruit Grower from Western Virginia, as follows: The spring of 1901 was unfavorable for testing different varieties of strawberries on account of late spring frosts. Abundance and Burbank plums were not seriously hurt. Excelsior proved the earliest strawberry, and it is quite productive, bearing two quarts to Michel's one. Johnson's Early was not only productive but large and of fine quality, the largest early berry we have tested. Crescent gave a good crop of medium sized fruit. Burton's Eclipse was large, productive, good quality, ripening May 27th. Clyde gave first berries May 30th, and capped the climax for heavy bearing. The berries laid in heaps around the vines. There were more berries than leaves. Fruit was large and regular in form and firm enough to ship. Bismark ripe May 30th, we find the largest and finest berry on our ground. Glen Mary ripens June 2d, very large and irregular in shape, moderately productive. We think well of this variety. Nick Ohmer ripens June 2d, large but not productive. Pride of Cumberland, ripens May 30th, poor bearer, rusted badly. Enormous is of no value here. Gandy ripens June 10th, late, large and fine, not over productive. Jessie ripens May 24th, very large and fine. We can pick them by the quart, each berry measuring six inches around. Every crate of Jessie would be called extra fine, and sold for 2 cents per quart more than any other berries sold at Wheeling.

To I. M. Macklin, Bryant, Ind.: Dear Sir—I am glad to hear from one who has been a reader of my paper for so many years, and thank you for your kind words. Grimes Golden is grown in many portions of the West and I suspect it is hardy enough for your locality but I cannot say positively. I do not favor planting Grimes Golden except in a small way for home use. It can be grafted to Ben Davis of course, or any other variety. If the trees are vigorous and doing well I should graft some of them. I should graft the trees in the branches and not cut off the trunks at all. If you will address H. E. Van Deman, 1423 Florida avenue, Washington, D. C., and inclose a stamped envelope, he will tell you positively whether Grimes Golden is hardy enough for your locality. If not hardy do not fail to graft in the top.—Editor.

F. B. Logan writes Green's Fruit Grower from Colorado as follows: Settlers here from the East have something to unlearn and much to learn since crops are grown here by irrigation. Irrigation is an extra expense which is more than made by the increase and certainty of crops, but new comers are somewhat incredulous in this regard. This state is making wondrous strides in reclaiming the desert by irrigation. Montrose county has about 10,000 acres under process of irrigation.

A lady subscriber asks for a remedy for blotches on the face, inquiring whether steaming the face is beneficial. Blotches and pimples indicate impure blood or imperfect indigestion, therefore anything which will promote good health can be recommended as a remedy. Be careful not to overeat. Do not eat between meals, and avoid rich greasy foods or pies, etc. Take plenty of outdoor exercise daily, and do not fail to expose yourself to the sunshine as much as possible.

The same subscriber asks for advice about keeping company with a young man whom her parents object to. Our advice under such circumstances would be to consider wisely the objections of the parents. There is no one so deeply interested in your welfare as your father and mother and having had a larger experience in life than yourself, it may be supposed that they are better capable to judge of the character of the young man than you are. I know of but few instances where it would be advisable for a young girl to welcome the attention of a man who was objectionable

to the parents. Where it is perfectly plain to the young girl that her parents are mistaken, and being positively sure that the young man's character is above reproach, and that he is in every way desirable, it is possible in some few instances it may be well to take a firm stand in regard to the matter.—Editor Green's Fruit Grower.

"I asked in vain who planted on the slope the lofty group of ancient pear trees, that with spring time burst into such breadth of bloom."

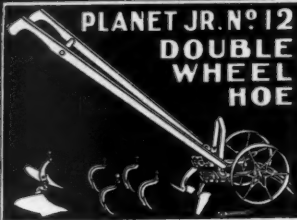
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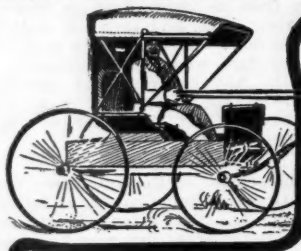


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tiful, interesting and valuable book ever published. It contains hundreds of beautiful pictures and is a marvel of elegance and splendor. The cover is a gem of art and the printing and other features simply perfect. Best of all, this charming book tells you just how to become a hypnotist. Every secret and mystery is here explained in the simplest language and you are amazed to find that you can master all these powers yourself and wield the subtle forces of mind as well as any operator in the land. You are also shown how you may heal the sick, relieve pain, cure bad habits, give sleep to the restless and comfort to the sorrowing. And for yourself, as this free book shows, you can win promotion, social and business standing, increase of trade, the influence, friendship or love you most desire, and in short, all that is needed to make you rich, esteemed and happy as long as life lasts. This book also treats fully on Personal Magnetism, Magnetic Healing and kindred subjects and how to cure yourself of any pain, ache or disease. In spite of its great value and precious contents this book is free to you—free as any gift ever held out by a generous hand. There is no cost, no charges whatever. Simply write for it and it will be sent by next mail, all charges paid. Don't send any money, not even a stamp, but send your name and address TODAY, and learn how to win health, wealth, and fame. Address, PROF. L. A. HARRADEN, Dept. 16, Jackson, Mich.



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CHOICE PLANTS. Strawberries, Raspberries, and Blackberries.

The best of the standard kind, and some of the choicest and most promising of the new varieties. My plants are first-class and up-to-date, and guaranteed by mail or express to arrive in perfect condition. My 1902 Catalogue fully describes some 50 varieties and is mailed free.

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Itching Eczema, all skin diseases cured. I cure when physicians and patent medicines fail. 30,000 patients testify to truth of above. Send 6 cts. for trial treatment. W. A. BULLARD, 331 Theodore Street, DETROIT, MICH.

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Send us your address and we will show you how to make \$3 a day absolutely sure. Write at once, ROYAL MANUFACTURING CO., Box 462, Detroit, Mich. Please mention Green's Fruit Grower.

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200 varieties. Also Grapes, Small Fruits etc. Best rooted stock. Genuine, cheap, 3 sample currants mailed for 10c. Desc. price list free. LEWIS BORSCH, Fredonia, N. Y.

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Choice kinds of Vegetable and Flower Seeds at 5c. per Packet. Flower Plants, 5c. each. Many choice novelties. Don't buy until you see our New Catalogue. Send 10c. for it. Write at once, IOWA SEED CO., Des Moines, Iowa.

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TRIAL TREATMENT FREE to users of ANY DRUG. Painless; no absence from work. All craving ceases at once. We specially invite cases where other cures failed. Write or call, ST. ANNE LEAGUE, Room 36 A. E. 54 W. 3rd St., N. Y.

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Our Pile Cure is positively the one remedy that never fails and cannot fail to cure any case of piles. Our remedy is a new one and produces instant relief. We mail you free sample. Suffer no longer. Write for it today. PETERS CHEMICAL CO., Box 55, Charleston, W. Va.

SALESMEN Wanted

to travel for old-established firm. Salary \$50 a mo. and expenses. No previous experience needed. W. B. HOUSE, 1020 Race St., Phila., Pa. Please mention Green's Fruit Grower.

MEN or WOMEN

ON SALARY \$20 A WEEK to introduce King Butter Separators. Makes Creamery butter from sweet milk or cream in two minutes. WILLARD MFG. CO., Dept. 121, Station U, Chicago.

FOR SALE. FRUIT FARM.

Grand location, three miles from city. Beautiful modern house, furnace heat, hot and cold water, etc. Fine lawn, shade and ornamental trees. Beautiful lake, stone's throw from house. This place will please anyone. A delightful home. Hundreds of bearing peach, plum and pear trees. HAWLEY & BUTLER, Springfield, Mass.

EVERYBODY who markets strawberries, etc., should send for circular describing my new Fruit Crate.

Pat. Sept. 24, '01. MARTIN KILIAN, Nappanee, Ind.

WATER LILIES. Plants of all colors. Also the Sacred Lotus and its varieties. Grown and for sale by W. J. RICHARDS, Watland, Ohio. Catalogue free

How to Treat Diseases at Home. Book of Directions for address. S. H. PLATT CO., Southern Pines, N. C.

"Where doth the snow-bird sleep? The stormy winter's night comes on apace, Thick falls the snow—knows it a sheltered place. Where it can snugly creep. And, safe and warm, its dusty pinions fold? Where doth He hide His snow-birds from the cold? All day the dark-winged flock About my window hopping, chirping, come, Asking of Tinylu a seed, a crumb, From his abundant stock."

He had time to see the beauty That the Lord spread all around; He had time to hear the music In the shells the children found; He had time to keep repeating As he bravely worked away, "It is splendid to be living In the splendid world to-day!" But the crowds—the crowds that hurry After golden prizes—said That he never had succeeded— When the clouds lay o'er his head. He had "dreamed"—"He was a failure," they "compassionately" sighed, For the man had little money in his pockets when he died.

A Cure for Crime.

A writer in The North American Review asserts that manual training is almost as good a preventive of crime as vaccination is of smallpox.

"What per cent. of the prisoners under your care have received any manual training, beyond some acquaintance with farming?" a Northern man asked the warden of a Southern penitentiary.

"Not 1 per cent.," replied the warden. "Have you no mechanics in prison?"

"Only one mechanic; that is, one man who claims to be a house painter."

"Have you any shoemakers?" asked the visitor.

"Never had a shoemaker."

"Have you any tailors?"

"Never had a tailor."

"Any printers?"

"Never had a printer."

"And carpenters?"

"Never had a man in this prison that could draw a straight line."

"Here, poor man, is a penny."

"Thank you, mum; I'll always number you among my closest friends."—Indianapolis "News."

Maude—Gaskell thinks he is a regular lady killer.

Esther—I shouldn't wonder. I had to talk with him last evening, and I really thought I should die, he wearied me so.—Boston Transcript.

Magistrate—What is your vocation—I mean what do you do for a living?

"Ah, yessir, yessir; I understand yerr now, sir. What I does for a livin' is, my wife takes in washin'."—Baltimore Jewish Comment.

"What is incredible to thee, thou shalt not, at thy soul's peril, pretend to believe! Elsewhither for a refuge or die here."

Go to perdition if thou must, but not with a lie in thy mouth,—by the Eternal Maker, No!—Thomas Carlyle.

According to statistics the United States now has 5 per cent. of the population of the world and twenty per cent. of its wealth. If we can keep up that percentage, when we have one-fourth of all the population we shall have all the wealth.

Definition is the soul of accuracy.—Rev. E. A. Culley.

Virtue alone raises us above fears and chances.—Seneca.

Circumstances alter us less than we think. If we are of a gay temperament—gay we shall be through all. If somber, no happiness can drive that somberness away.—H. S. Merriman.

A Thing Worth Knowing.

The Combination Oil Cure for Cancer and Tumors cures more cases than all other agencies combined. It has the endorsement of Doctors, Lawyers, and Ministers who have been cured, as well as hundreds outside the professions. It is soothing and balmy, safe and sure, and the only successful remedy known to Medical Science. Originated and perfected after 30 years of patient, scientific study. Those afflicted, or who have friends afflicted should write at once for free books giving particulars and indisputable evidence. Address Dr. D. M. Bye Co., Lock Box 325, Indianapolis, Ind.

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about a country that produces paying crops in Summer, Fall, Winter, and Spring, where land is cheap, climate the healthiest, write to

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3rd V. P., F. E. C. Ry. Co., ST. AUGUSTINE, FLA.
Please mention Green's Fruit Grower.

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STRAWBERRY PLANTS

our specialty. We have the leading new and standard varieties at prices that are right; also, Raspberries and Blackberries. Vigorous, Heavy Rooted, and true to name. Send to-day for our 44-page descriptive catalogue, it's FREE.

A. R. WESTON & CO.,
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H. W. JENKINS, Boonville, Mo.

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SENT FREE ON 30 DAYS TRIAL. Has ball bearings, double rotary motion, and is a perfect substitute for the washboard. Easier to operate, and washes clean in shortest time. No money required in advance. Easy payments. Send at once for illust'd circular.

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Grafting Wax For Sale.

We offer a superior quality of grafting wax in packages of one half-pound, or one pound, by mail, post-paid, at

30c. for half pound and 50c. for pound packages.

By express we can sell this grafting wax at 35c per pound. Remember that postage costs us 15c per pound. Address
GREEN'S NURSERY CO.,
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WHITE WYANDOTTE and Barred Plymouth Rock, thoroughbred stock. Eggs, \$1.00 per 15, \$5.00 per 100. E. B. Ketcham, South Haven, Mich.

ROSE COMB White and Brown, Single Comb White Leghorns, White Klon-dikes, White Indian Game Bantams. Eggs, 75c per 15. Some fine Cockerels for sale. Mrs. H. Valentine, Cambridge, N. Y.

20 EGGS Full blood R. C. and S. C. Brown Leghorns and American Dominiques. Send express money order or registered letter. Wilson Moorhead, Lutzville, Pa.

REAL ESTATE bargains: 104-acre farm in Cayuga Co., N. Y.; price \$1,900.00; \$600.00 down. A 23-room summer hotel in Wayne Co., Pa., price \$1,500.00, and other bargains. If you want to buy or sell, write me. G. B. McMullin, Watertown, N. Y.

WHITE ROCKS—Hens, score 33 to 96; six pens; six males, score 95 to 96; no other stock all sold; eggs, 33; three setting, 7; catalogue free. Dr. J. H. Boyer, Frankfort, Ind.

ROSE COMB Brown and White Leghorns, Silver Laced and White Wyandottes, eggs from prize stock, \$1 per 15. Frank Hardwidge, Poneto, Indiana.

THIRTEEN EGGS one dollar. Barred Plymouth Rocks, Single Comb Brown Leghorns, Silver Spangled Hamburgs, Pekin Ducks. Superior stock. A. L. Cary, Lewis, Ohio.

SINGLE COMB White Leghorns, bred for business and beauty, pen head by Cock second at Boston; also fine White Wyandotte, Buff Rocks, Blue Andalusians, Colored Muscovy Ducks, etc., 50c setting; Fantails, all colors, \$1.50 pair; (exchanges).

EGHORN—Single and Rose Comb, White, Single Comb, Brown and Buff; 15 eggs, 75 cents; 105, \$4.00. Mr. and Mrs. S. Rider, Maryland, Otsego Co., New York.

VALLEY VIEW Poultry Farm, Belleville, Pa. Bronze and Wild Turkeys. Leading varieties Poultry. Prices low. Cat. free.

500 PIGEONS WANTED; stamp for reply. Fred. Sudow, Amityville, New York. Breeder: Mongolian, English Pheasants, \$3.50 each; setting, \$1.75; Golden Pheasants, \$3.50 setting; 25 varieties Poultry. Anconas, Hamburgs, Seabright Bantams, Indian Runner Ducks, etc., 50c setting; Fantails, all colors, \$1.50 pair; (exchanges).

INSERT YOUR NAME in our Poultry Directory and receive sample poultry papers, catalogues, etc., every day. Only ten cents silver. Poultry Directory Co., Goshen, Ind.

BREEDING STOCK now ready. Barred Plymouth Rocks exclusively; don't in-bred and weaken your stock. Cockerels \$1.50, Pullets \$1.00. Chas. L. Hydrorn, Morristown, N. Y.

SECRETS OF THE NURSERY BUSINESS AND HINTS TO FRUIT GROWERS, is the title of a new publication, illustrated with hundreds of photographs of nurseries, orchards, and berry fields, printed on elegant paper. Sent by mail, post paid, for 10 cents. Address, Charles A. Green, Rochester, N. Y.

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The grape so much desired is at last produced. A vigorous, healthy, prolific, handsome, extra early, of best quality. An extra fine shipper that will sell at the highest price in any market. Cluster and berry above medium, clear bright red, the earliest of all grapes, and equal in quality with the Delaware. It endures 27 degrees below zero in Kentucky and produced a fine crop. Bound to lead all others as the earliest market grape. Write for prices.

Descriptions of all new creations, general catalogue, and colored plates of Wapanka free to applicants.

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Denison, Texas.
Please mention Green's Fruit Grower.

Do our editor a favor by sending in at once to-day your subscription to Green's Fruit Grower, together with a few others in your locality. Call attention to the value of this paper, its premiums of books, etc.

THANKSGIVING PRUNE REMARKABLE FOR ITS KEEPING QUALITIES, GIVEN FREE.

This new and valuable prune introduced by us for the first time last fall, has been thoroughly tested by prominent orchardists. We offer free one Thanksgiving Prune Tree, 2 years old, with each order of \$10.00 or more made from prices quoted in Spring catalogue. If you do not receive this catalogue by February 1st, send for it.

GREEN'S NURSERY CO., Rochester, N. Y.

"BIG FOUR"

Not only operates in Ohio, Indiana, Illinois and Kentucky, — 2,400 MILES — of the best constructed and finest equipped railroad in America, but also maintains magnificent through train service in connection with the New York Central, Boston & Albany, and other roads. Write for folders.

Warren J. Lynch,
Gen'l Pass. & Ticket Agent,
CINCINNATI, OHIO.

IF YOU GROW BERRIES, PEACHES, GRAPES OF MELONS, send us your address on a postal, and secure a copy of our latest catalogue and price list of Berry Boxes and Fruit Baskets.

THE PIERCE-WILLIAMS CO.,
South Haven, Mich.

OLDS' Seed Potatoes

Always Give Satisfaction, because always carefully grown and handled and sold at lowest possible prices. 15 years experience. Splendid stock this year. Red River Ky. Ohio, Iowa, Triumph and White Ohio, Fat's Choice, Plaguee Vigorosa, Car. No. 2, S. W. Raleigh, etc. Write postal and we will mail the 60 pounds to be sold for no price. Send 10c. for full information. T. J. King Co., Richmond, Va.

10,000 Prizes and Premiums Offered.

Black Ben Davis "King of the Orchard" Entirely Different from Gano

Major Frank Holsinger writes us under date of Dec. 30, 1901: "I promised you yesterday to do you justice in the matter of **Black Ben vs. Gano**. As I told you, at first I thought them identical, but in a latter examination concluded differently. . . . I feel positive now, with what evidence I have, that they are different. . . ."—Frank Holsinger.

If others who have been spreading the report that Black Ben Davis and Gano are the same, were as careful to **investigate** and as **honest to admit** their mistake as Maj. Holsinger many planters would be saved the disappointment of planting Gano with the idea of getting the same or as good an apple as Black Ben Davis. Gano is a good apple, but **Black Ben Davis is SUPERIOR in size, color and keeping qualities.**

Champion: Next to Black Ben Davis, the **most valuable** of all market apples—good grower, **young bearer**, good color—much better keeper than Ben Davis, and a **great drouth resister**, having stood last summer better than any other sort. **Delicious, Senator, Apple of Commerce, Jonathan and Grimes Golden** complete the list of **MARKET and QUALITY KINGS**. Our stock of 1 and 2-year old apple trees is the largest in the U. S., and **quality is unsurpassed.**

PEAR, Standard: Leading sorts, including Fame, Alamo, Ozark, Kieffer, Lincoln (true Lincoln of Ill.), Garber, Bartlett, etc. **Dwarf:** Duchess, Anjou, Howell, Fame, Bartlett, and others—**extra fine trees.**

PLUM: A full stock of all the **BEST** varieties, including Burbank's Climax, Sultan, Shiro, America. Gold is still **increasing** in popularity—we have most excellent reports from all over the U. S.; should be in **every** orchard.

CHERRY: One of the **SUREST** crops that can be grown, and one that always brings good returns. First-class trees of such varieties as Dyehouse, E'y Richmond, Montmorency (true), Eng. Morello, Suda, etc., will be scarce for spring; orders should be placed at once.

GRAPE---An Immense Stock of Superb Quality

For many years it has been the policy of Stark Nurseries to supply its customers with the best of everything that can be grown. Recognizing the indisputable fact that the **best** vines

in the country are grown in the state of N. Y., we secured acreage at Portland, Chautauqua Co., in the heart of the famous Fredonia district and established our Grape Nursery. The result was highly satisfactory to us and will be more so to our customers who plant the vines; for finer, thriftier, healthier stock was never grown; and as vines can be grown in New York cheaper than elsewhere, owing to perfect stand and ease of cultivation, we are able to reduce prices materially.



STARK GRAPE NURSERIES in the famous Fredonia Grape District, Chautauqua Co., N. Y.

We are ready to meet all competition in both quality of stock and **low prices**. Large orders for vines of nearly all varieties grown by us can be shipped from either Portland, N. Y., or

Louisiana, Mo.; small assorted orders will be filled from Louisiana, but with the fine N. Y. grown vines—we having discontinued growing grape elsewhere. Leading varieties are Moore's Early, Diamond, Niagara, Worden, Concord, Brighton, Delaware, etc., all sorts of **established** val-

ue in all markets. For the home vineyard we grow the sorts of finest quality; in fact, our list embraces **the best** for all purposes, covering the entire season from early to late.

We PAY FREIGHT on Orders of \$12 and Over, Box and Pack Free, **Guarantee Safe Arrival, GUARANTEE SATISFACTION.** Write for Stark Fruit Book, Price List, etc.—free upon request.

STARK BRO'S NURSERIES & ORCHARDS @ Louisiana, Missouri.

ELBERTA PEACH

We still have a fair supply of this most valuable of all peaches. Our stock of Elberta alone was more than 2,000,000 trees and by turning down orders from other nurseries we maintained our supply for planters' trade. We must admit that we have no surplus, and those who wish to plant the coming spring must place their orders early or be disappointed. The stock is strictly first-class in every particular.

PEACH, of all varieties, very **scarce** thruout the U. S., and nurserymen who have sold their small stocks and are unable to procure more, are advising planters to wait until next year. But we have a stock in keeping with Elberta and are **still prepared to supply planters** with all the standard varieties, notwithstanding the enormous trade of last fall from the Southern States. No need of waiting until next year to plant peach orchards—a year's time lost is never regained.

APRICOT: Sunrise and Superb, the only two varieties worth planting east of the Rocky Mountains. Also American Seedlings, from which some good sorts should come; these are worthy of **trial.**

SMALL FRUITS: Leading sorts for home use and market—London Market Currant, Houghton Gooseberry and Cumberland Raspberry are sorts that should be **largely planted.** Lucretia Dewberry is the best **payer.**

SHADE AND ORNAMENTAL TREES, Shrubs, Roses, etc. Bechtel's Dbl.-flowered Wild Crab Apple is unsurpassed for **hedges.** Of iron clad hardness.

BUDED LILACS: Superb Sorts, both Single and Double; colors are pure white, light and dark blue, light and dark purple, purplish red, rosy red, satiny rose, etc. The beautiful old fashioned lilac is far surpassed in beauty and size of truss by these improved sorts. Every flower garden, every door yard, should have them. **Perfectly hardy.**

ROOT GRAFTS of Apple of all leading sorts, and Kieffer and Garber Pear. Whole-root grafts in stock; piece root **made to order.** Special low prices quoted on large lots of Root Grafts, Seedlings and Stocks.

SEEDLINGS, STOCKS and CUTTINGS: Apple (5 grades or sizes), Imported Pear, Kieffer Pear, Mahaleb Cherry, Anjers Quince and Mariana Plum Cuttings.